Software

ACTi Streaming Activator

v1.30.06

User's Manual

www.acti.com

APP-2100

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1 Getting Started

Recommended System Requirements

Minimum recommended system requirement for ACTi Streaming Activator include:

CPU	Pentinum 4 2.4GHz and above
Hard Disk	40 GB or above
Memory	256 MB or above
Operating System	Windows XP / Windows 2000 with SP4 or above
Required Utilities	FFDShow, DirectX 9.0b or later hardware acceleration
Video Resolution	SVGA or XGA with 1024x768 resolution, 32-bit color

IMPORTANT: For security reason, the operating system has to be patched with latest security updates. Refer to http://www.microsoft.com/security for latest security updates.

NOTE: Required utilities can be accessed in the bundled CD.

Start ACTi Streaming Activator

To start ACTi Streaming Activator™, double-click the Activator icon on the desktop.

IMPORTANT: To avoid problems and conflicts in the video subsystem, run only one instance of ACTi Streaming Activator at one time.

After double-click activator icon on the desktop, you will see a message, please input User ID and Password to login.

Figure 1. Input User ID and Password

1. **Please input the User ID and Password to login. Default User ID is Admin, password is 123456.**

Exit ACTi Streaming Activator

To exit ACTi Streaming Activator™, click the button or hit **ESC** key.

Figure 2. Exit ACTi Streaming Activator

Check ACTi Streaming Activator Version

Figure 3. Check ACTi Activator Version

1. **Click on the Logo** **to check version**
2. **About US Dialog Box**
3. **Version Number**
4. **Released Date**

2 Activator User Interface

ACTi Streaming Activator is designed with a user-friendly interface, and deployed with minimal training.

Understating the Preview Screen

ACTi Streaming Activator preview screen is consisting of several parts.

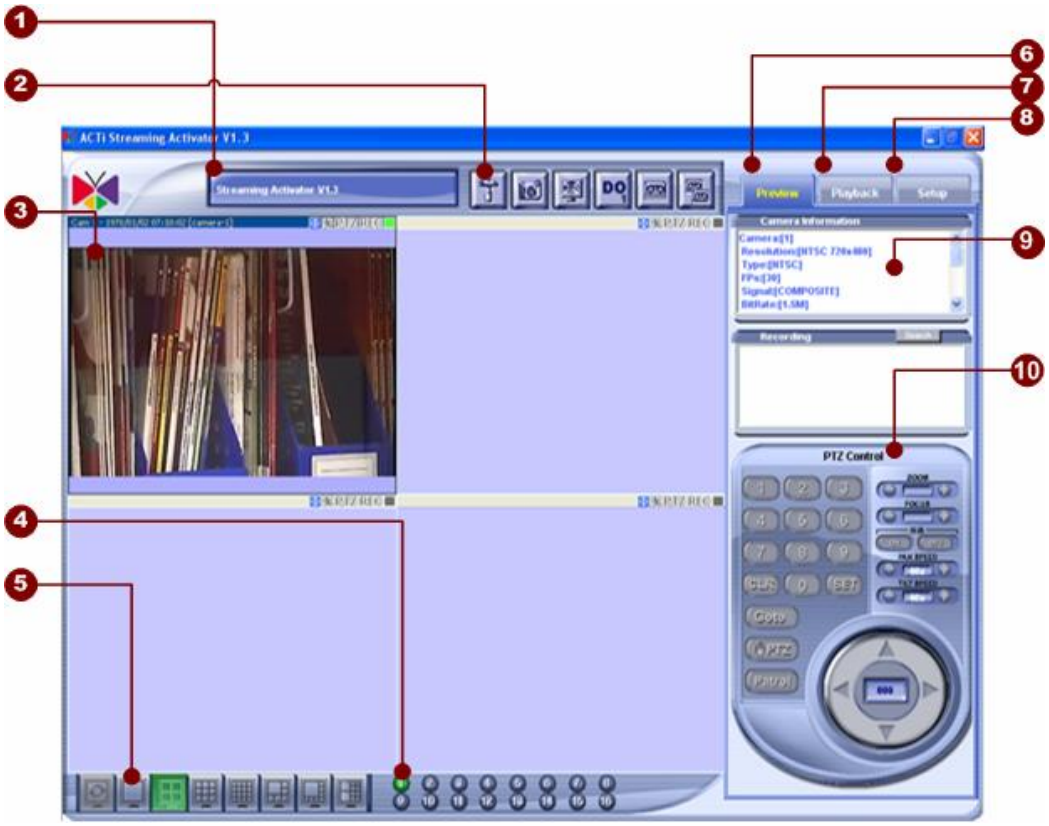


Figure 4. ACTi Streaming Activator Preview Window

1. **ACTi Streaming Activator version**: This panel displays related information on the ACTi Streaming Activator version number.
2. **Active Media Manager**: This panel operates on the active media window.
3. **Media Window**: This window links to the media source, including a live video stream from network or video stream from file.
4. **Media Quick-launch Button**: Indicates the listing of connected media

source; by clicking the button, the selected media source will be activated.

5. **View Manager**: Change different view template.
6. **Preview Panel**: Change to preview mode.
7. **Playback Panel**: Change to playback mode.
8. **Setup Panel**: System configuration and setups.
9. **Camera Information**: Lists the information about the camera Selected.
10. **PTZ Control Panel:** Sends PTZ command to connected device.

Understating the Playback Screen

ACTi Streaming Activator playback screen is consisting of several parts.

Figure 5. ACTi Streaming Activator Playback Window

1. **Thumbnail**: The window lists the thumbnail files user captured.
2. **Bookmark**: This window lists the bookmark files user defined.

TIPS: Alarm/Event includes **Motion Detection Event è** , **Digital I/O Event è** , **Alarm è** , **and Bookmark Event è** .

3. **Media Playback Panel**: Media playback panel contains normal and advanced operation over media file, including play forward, rewind, play speed, frame-by-frame play forward and rewind.

Operate on Preview/Playback Window with Mouse

Click Left Mouse Key: Activate Window

This action will activate the preview or playback window.

Click Right Mouse Key: Enable / Disable Toolbar

This action will enable or disable the preview window toolbar.

Figure 6. Enable / Disable the Toolbar

1. **Enable the Toolbar**
2. **Disable the Toolbar**

Double Click Left Mouse Key: Enlarge Window

This action will enlarge the window or restore the enlarged window to its original size.

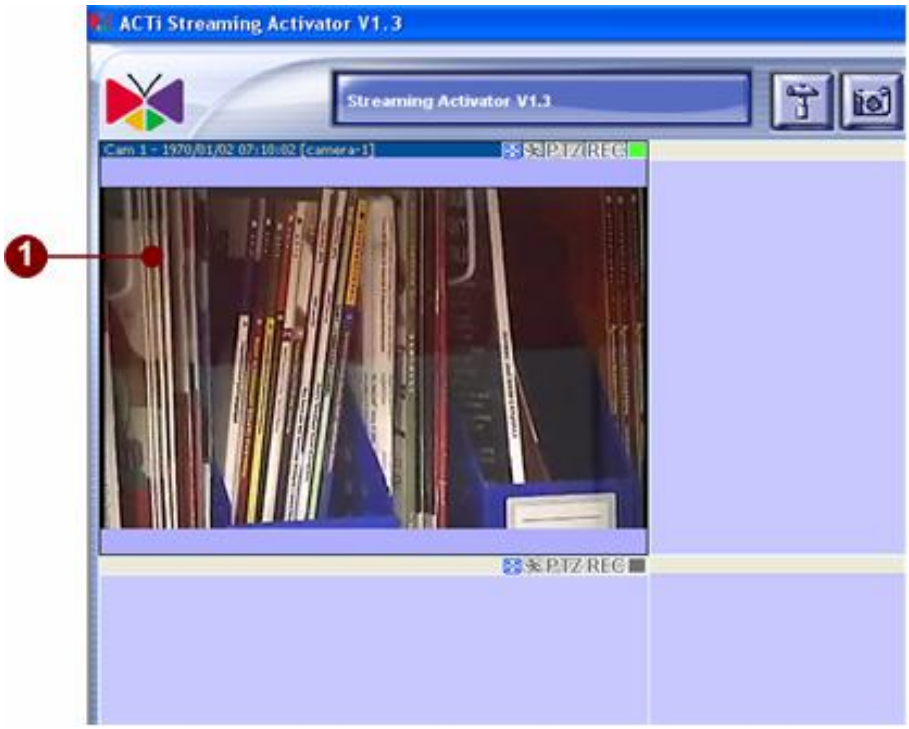


Figure 7. Double Click on the Video Screen to Enlarge Window

1. **Click on the video screen to enlarge window**

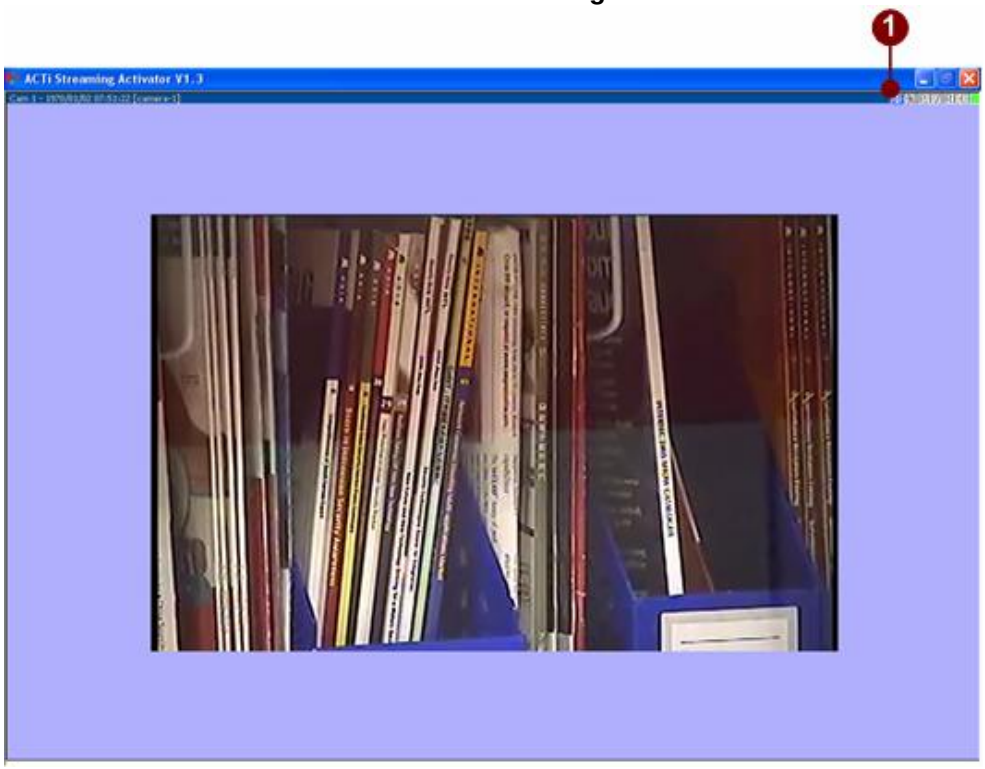


Figure 8. Enlarge Window

2. **Click on the stretch button to stretch the video size to fit the window size**

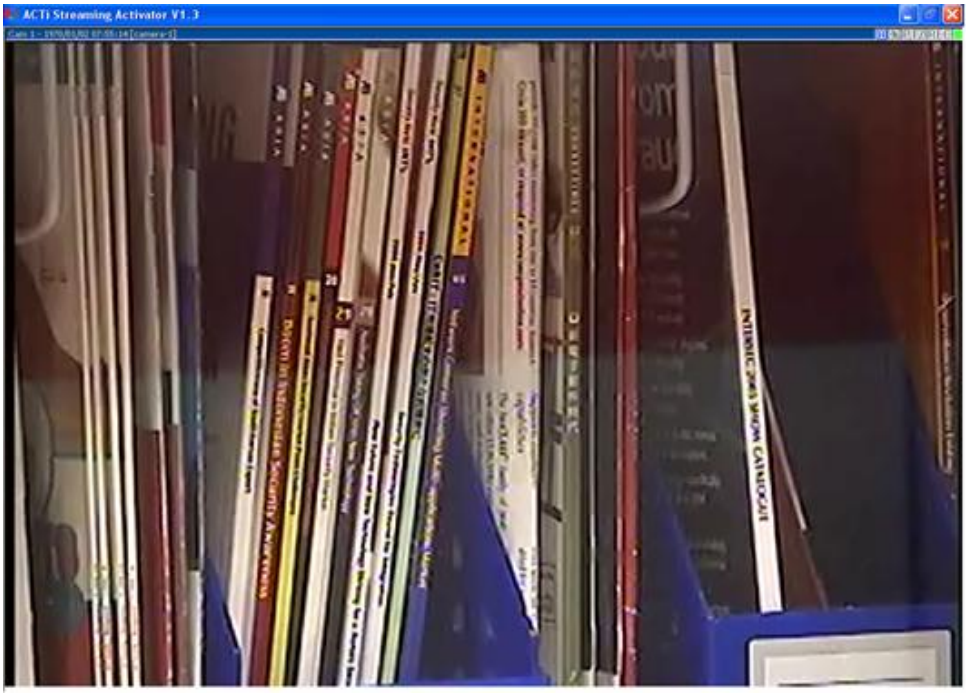


Figure 9. Enlarge and Stretched Window

IMPORTANT: When the preview window is stretched and enlarged, the CPU loading will be increased to decode the MPEG-4 stream.

3 Jump Start Streaming Activator

Before using Activator, the user has to configure the necessary configuration in Activator. This section starts with adding a camera.

Assign a camera to a preview window

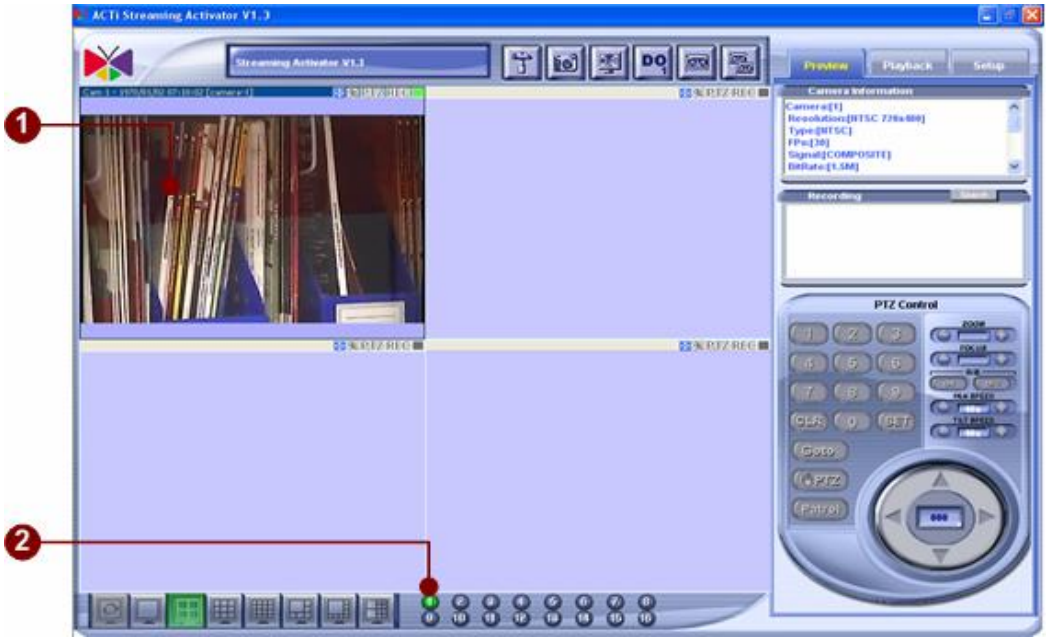


Figure 10. Select Preview Window and Camera

1. Click a preview window
2. Click on the camera number

Camera Connection Status

To check if a preview is connected with a camera, one may check the camera connection status.

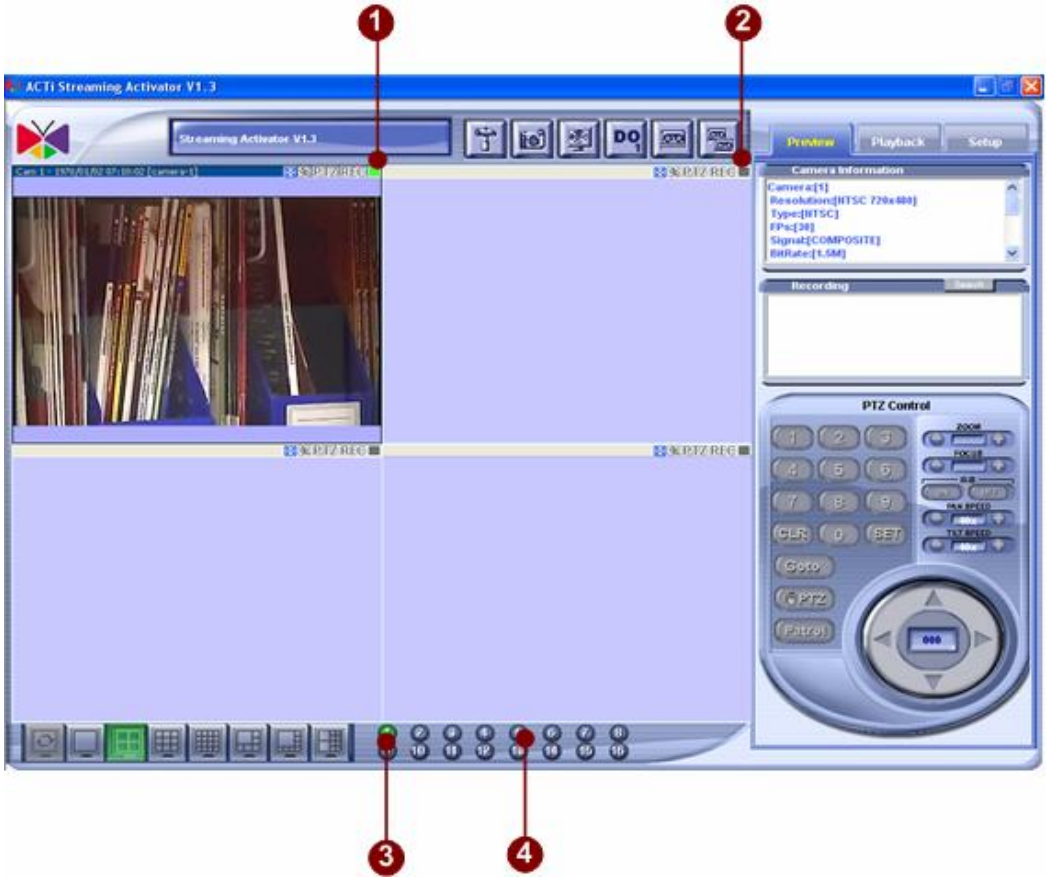


Figure 11. Camera Connection Status

1. indicates that the preview window is connected to a window
2. indicates that the preview window is not connected to a window
3. indicates that the preview window is connected to a window
4. indicates that the preview window is not connected to a window

Camera Disconnection Status

If network lose the preview window will show the message to indicate disconnection.

NOTE: System will try to reconnect to Video Server each 20 sec.

Figure 12. Message Indicates Disconnection Status

Camera Video Loss Status

If Video lose the preview window will show the message to indicate video lose.

NOTE: System will try to check video each 20 sec.

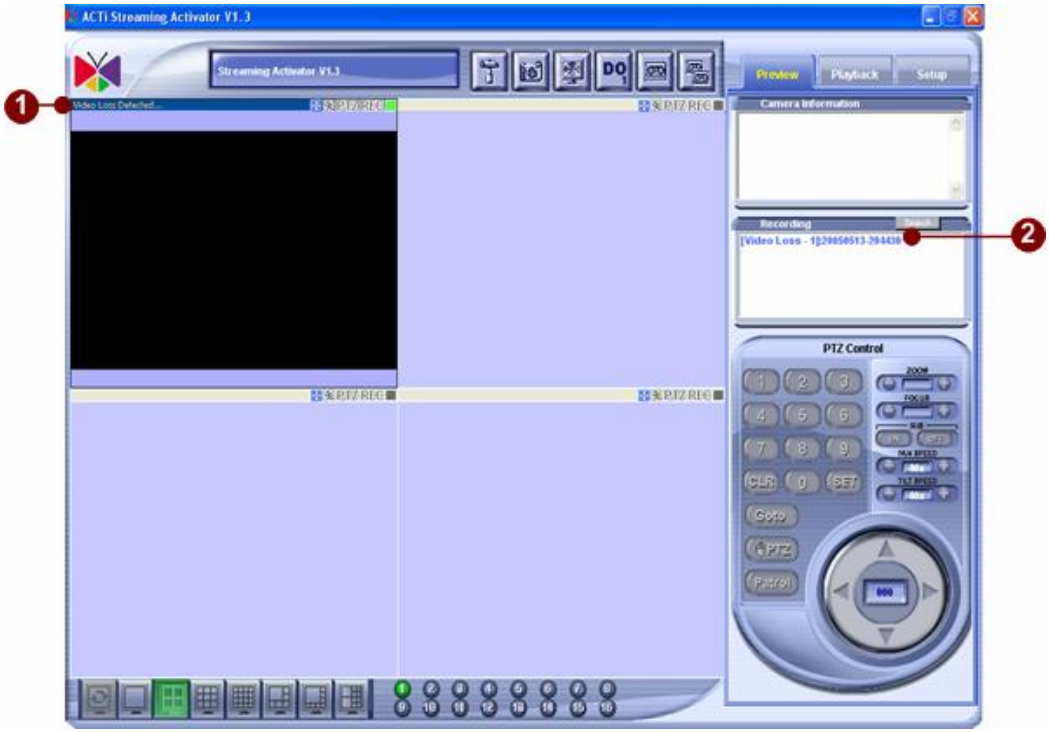


Figure 13. Message Indicates Video Lose

1. Title bar displays `Video Loss Detect`.
2. The `Video Loss` event is triggered and logged.

Configure a camera

This section shows you how to configure the camera information.

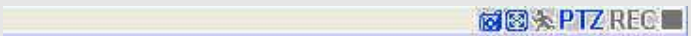
Click Configure Camera Button

Figure 14. Click Configure Camera Button

1. Activate a preview window by click on the preview window
2. Click on the camera number to activate the preview window
3. When the preview window is activated, the toolbar will be displayed in blue color

TIPS: Active preview window:

Non-active preview window:



4. Click on the Configure Camera button to configure the camera information

TIPS: If no camera is selected, then a pop-up window will displayed and ask user to load Setup Page.

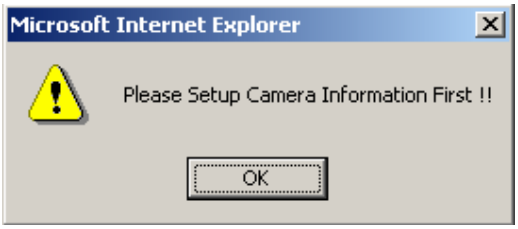


Figure 15. Please Setup Camera Information First

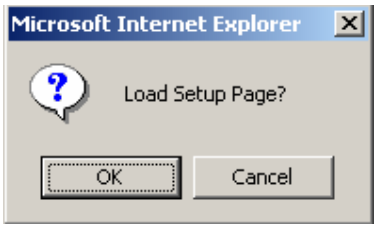


Figure 16. Ask User to Load Setup Page

Camera Configuration

This chapter describes how to operate in a setup dialog box.

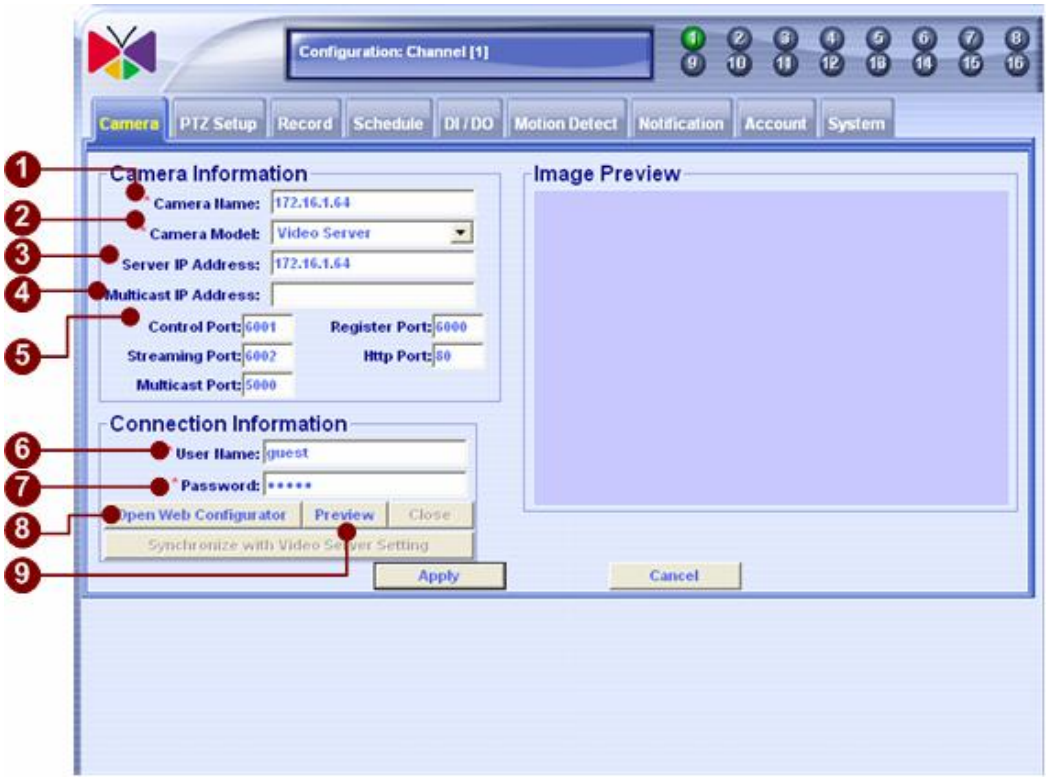


Figure 17. Camera Setup Dialog Box

1. **Camera Name***: Input a camera name or description to describe the camera.

NOTE: The content of the camera name will be displayed on top of the preview media window.

2. **Camera Model***: Choose the camera model within a selection list; including:
   - **Video Server**
   - **IP Camera**
   - **IP Speed Dome**
   - **AXIS**
3. **Server IP Address***: Connect to the video server with unicast (TCP) connection

NOTE: You may enter host name address in this field as well. Make sure the host name can be resolved by DNS (Domain Name Server) in your network environment. This operation can also be verified by using ping command:

```
C:\>ping hostname.acti.com
```

4. **Multicast IP Address**: Subscribe to a multicast network to retrieve video packets.

NOTE: If Multicast IP address is entered without Server IP address, then the preview window can only perform preview function.

If Multicast IP address and Server IP address are keyed in, then the preview window can perform preview and Digital I/O and PTZ operations. The limit of concurrent connection is 15.

5. **Port Setup** : the port number to be authorized by the video server
6. **User Name**: the account to be authorized by the video server
7. **Password**: the password to be authorized by the video server
8. **Open Web Configurator** button: click this button to open video server's Web Configurator directly
9. **Preview** button: click this button to see the preview window and adjust frame rate and video quality.

Figure 18. Preview Window Toolbar

Motion Detection Setting

1. **Enable Motion Detection**: Enable or disable the motion detection function
2. **Sensitivity**: Set the sensitivity level for the motion detection event. The level can be set from 10 to 100.

NOTE: When the motion detection function is enabled, the media window's MD indicator will display in blue color.

-0

Figure 19. Motion Detection Indicator Enabled

NOTE: When the motion detection function is active, the media window's MD indicator will display in Red color.

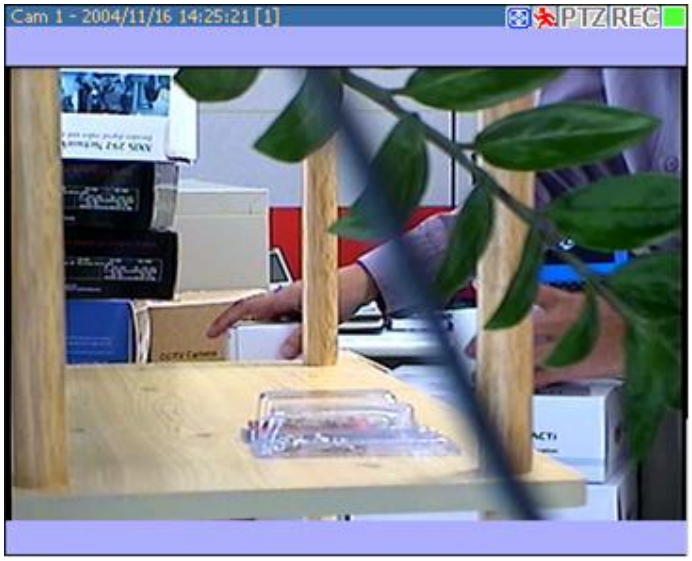


Figure 20. Motion Detection Indicator Enabled

PTZ Control Setting

1. **Enable PTZ**: Enable or disable PTZ function

NOTE: When the PTZ function is enabled, the media window's PTZ indicator PTZ will display in blue color. PTZ

2. **Baud Rate**: Select the baud rate to communicate with PTZ devices. The default value is set to 9600 bps.
3. **Protocol**: Pelco-P protocol is supported.

NOTE: For advanced PTZ control, please refer to 49

For advanced PTZ setup, please refer to 76

NOTE: Now, we support the user defines PTZ Protocol.

Figure 21. PTZ Indicator On

Disconnect the camera

To disconnect the connection to the camera, click on the connection status button on the active preview window

Figure 22. Disconnect the Camera

1. **Click on the connection status button**: Click on the connection status button to disconnect the camera. The preview will be terminated as well, and the connection status button will become .

4 Preview Mode

Preview Window

User may switch different preview mode by clicking on preview mode buttons.

Figure 23. Preview Window Operation

1. When a channel is activated, the preview window will be displayed with **blue** title bar
2. The camera ID will be displayed in **green** color
3. Click on 1-channel preview , Activator will enlarge the active window to maximum size
4. Click on 4-channel preview , Activator will display 4-channel at the same time

Activate the Media Window

To operate over a media window, you have to activate the media window first. The operations can be applied in the media window are: **Media Setup, Create Snapshot, Zoom Media Window; Send DOI, 1-channel Recording and multi-channels Recording.**

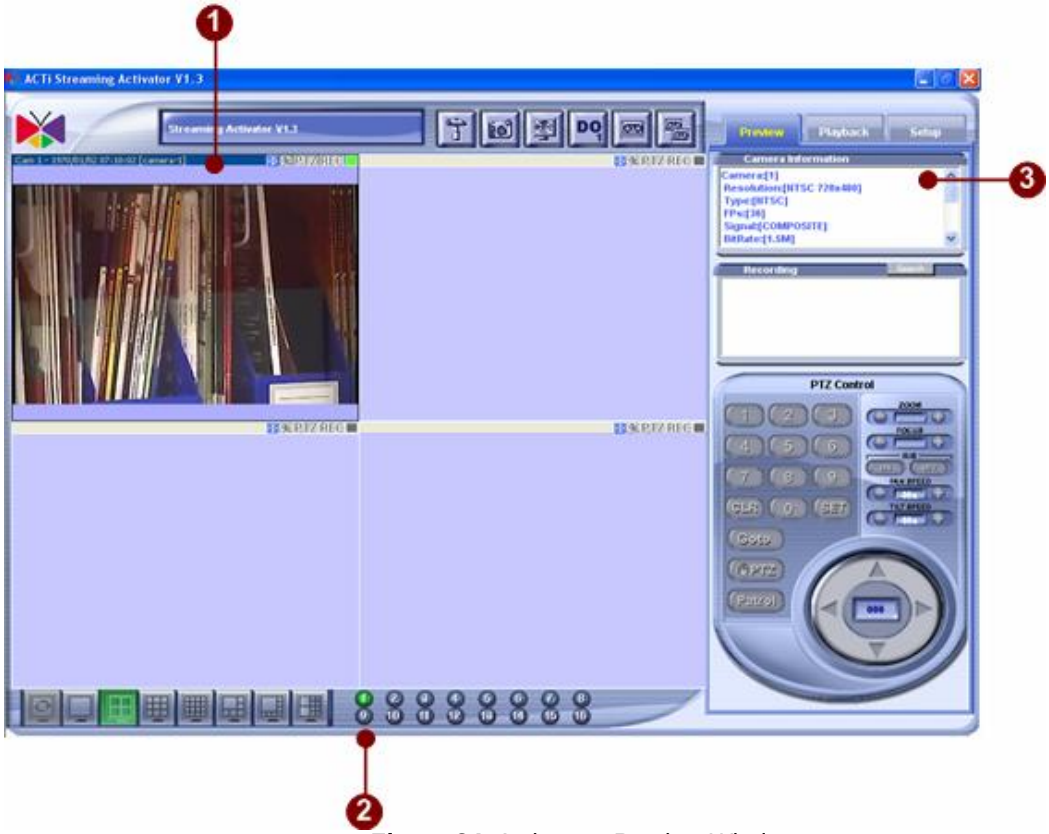


Figure 24. Activate a Preview Window

There are two ways to activate a media window:

1. Click on the media window in the video panel. When a media window is activated, the media window will be displayed with **blue** title bar
2. Click on the channel number in the "**Media Quick-Launch Button**"; click the one with green light. will bring up the video stream from connected camera.
3. **Camera Information Window**: This window displays current camera configuration, including camera ID, camera name, video resolution, FPS, etc.

Operations over preview window

Active Media Manager performs functions on the active media window.

TIPS: Click on the media window to activate that media source.

Figure 25. Active Media Manager

1. **Camera Setup**: Setup the camera-related information, including IP address, FPS, Bit-Rate, recording settings, etc.
2. **Create Snapshot**: Activator creates snapshot image on-the-fly. This will also creates a "**Manual-Thumbnail**" event to the system.

NOTE: Current snapshot images support **JPG, BMP, and GIF** file format. The file location is configured in "Recording Setup" button.

3. **Toggle Full-screen Mode**: The active media window will be stretched up to the full window, when clicked a second time, the active media window will be reset to normal proportion of the video window.

NOTE: The stretched-up video will be distorted; it may not comply with correct proportion of original video setting.

4. **Send DO1:** Use this button to trigger DOI manually.
5. **Toggle 1-channel Recording:** Starts or stops recording manually. When the active window is recording, this button will become .
6. **Toggle Multi-channels Recording:** Starts or stops recording manually. When the active window is recording, this button will become .

NOTE: When user clicks Multi-channels Record button, the channels in the setup window will be recorded. For example, if user setup channel 1, channel 3, channel 5 in the camera setup, then these three channels will be recorded.

Preview Window

Media window is the essential to Activator system. Media window can be the live video stream from video server or the media file from the storage.

Media Indicator

Figure 26. Preview Window Indicators

1. **Camera ID**: Indicates current camera ID
2. **Digital Time Code**: Display the timestamp from the video server. This format is digital time code embedded in video stream.

NOTE: Digital time code is embedded in the video stream, and can be applied as watermark of the video stream.

3. **Camera Name**: Indicates current camera name. This value is setup in the camera name in camera configuration by clicking
4. **Create Snapshot Button**: Click this icon to create snapshot immediately. The time code will also be print in the saved picture.

NOTE: The snapshot image is stored in **JPG, BMP, and GIF** format.

5. **Enlarge Screen Button**: Click this icon to stretch and enlarge current window. After the window is enlarged, click this icon to restore to its original size.

NOTE: You may also double-click on the left mouse key to enlarge the preview window. Another double-click on the left mouse key may restore the enlarged preview window to its original size.

IMPORTANT: When the preview window is stretched and enlarged, the CPU loading will be increased to decode the MPEG-4 stream.

6. **Motion Detection Indicator**: icon indicates that this camera is setup with motion detection function. Icon indicates that this camera is not setup with motion detection function. This value is setup in the camera name in camera configuration by clicking
7. **PTZ Indicator**: PTZ icon indicates that this camera is setup with PTZ control. PTZ Icon indicates that this camera is not setup with PTZ control. This value is setup in the camera name in camera configuration by clicking
8. **Recording Indicator**: REC icon indicates that this camera is recording. REC icon indicates that this camera is not recording.
9. **Connection Status Button**: icon indicates that this preview window is connected. icon indicates that this preview window is not connected.

NOTE: When click on this button, the connection to the camera will be closed.

Stretch Video Size to Fit Preview Window

Following methods may let users to enlarge the preview window:

- Click on the button to enlarge preview window
- Double click on the left mouse key

Figure 27. Stretch Video Window to Fit Preview Window

IMPORTANT: When the preview window is stretched and enlarged, the CPU loading will be increased to decode the MPEG-4 stream.

Following methods may let users to restore the preview window to its original size

- Click on the button to enlarge preview window
- Double click on the left mouse key

Capture Screenshot

Following method may let users to capture screenshots:

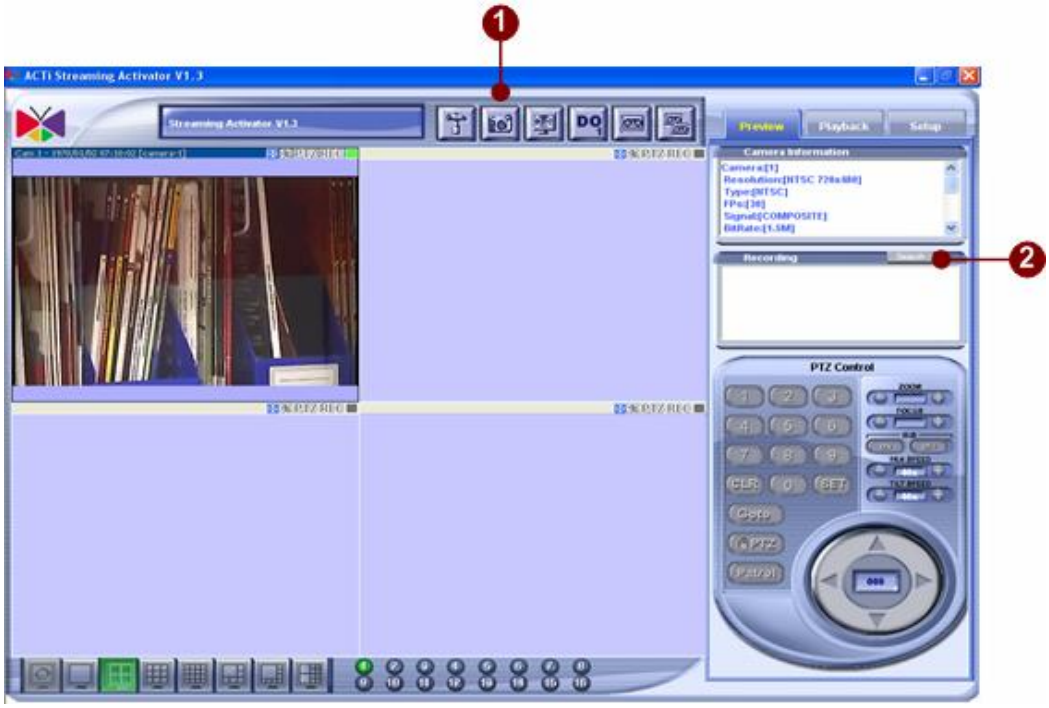


Figure 28. Capture Screenshot

1. **Capture Screen Button**: Click on the button to capture active preview window into an image file.
2. **Event List**: Event list will display the screen-capture event as **Manual-Thumbnail** event.

IMPORTANT: If you want to capture the original size, click button or click button or double click on left mouse key to enlarge the video size before capture the screen shot.

Advanced Preview

Uses the “Auto Frame” function to Preview 16-channels.

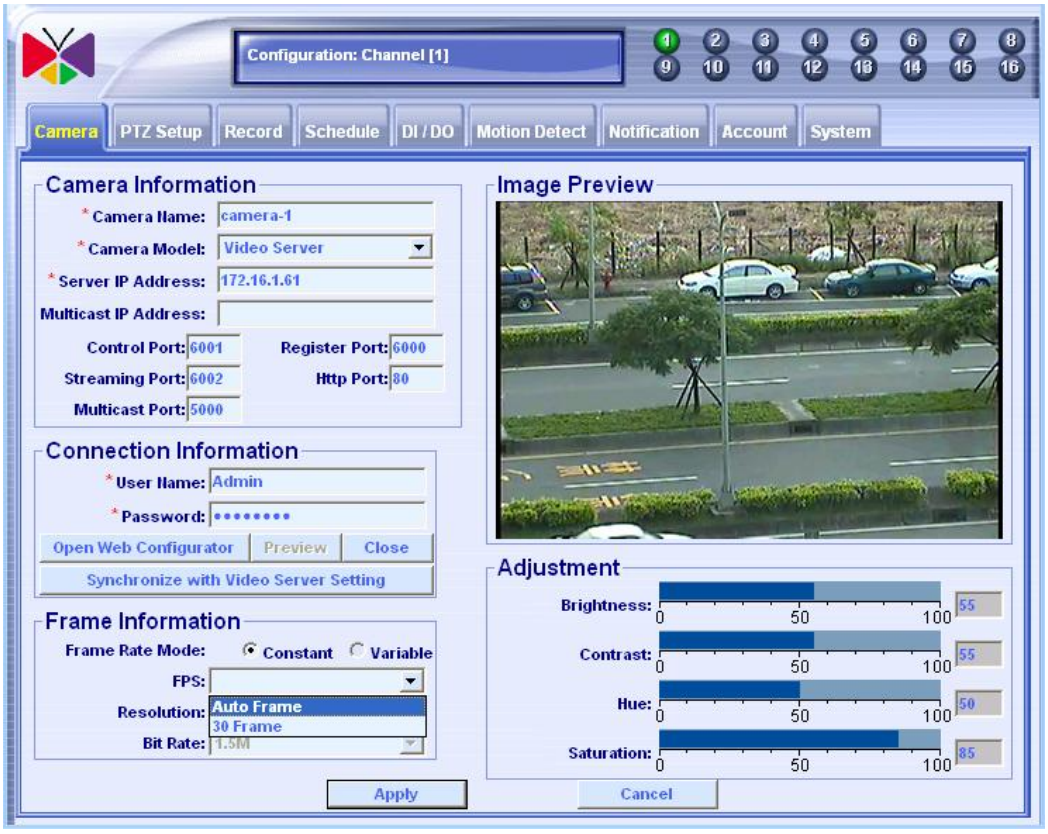


Figure 29. Camera Setup

1. Click on Camera Setting.
2. Input camera name, camera model, server IP address, user name, password and then click on “Preview” button.
3. On the FPS column, choose “Auto Frame”. (You can choose Auto Frame on Constant and Variable frame rate mode.)
4. Click on “Apply” button.
5. Choose other camera number, set it as same as this.

Figure 30. Advanced Preview Window

1. Go to Preview Mode, and then click on the camera number to preview.
2. Choose the video screen, it has the active mode, and has 30 FPS to preview.
3. The unselect video screen is 1 FPS to preview.

Arrange preview window with cameras

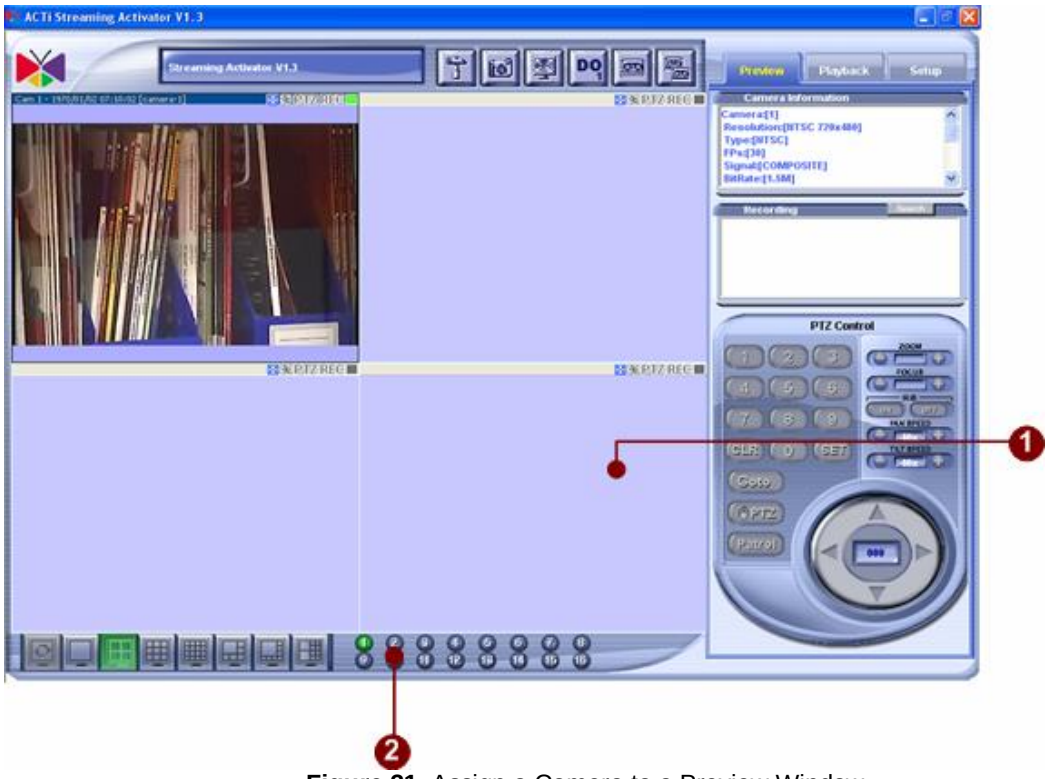


Figure 31. Assign a Camera to a Preview Window

1. **Select a preview window**: Use mouse to select a preview window.
2. **Select the camera**: Then select the camera to be assigned to the preview window

NOTE: If user assigns a camera to a preview window that is already connected with a camera, then that preview window will be re-connected to the new camera ID assigned. The previous camera will still be connected without preview.

NOTE: If the camera has not been connected yet, e.g. 3 , then the camera configuration page will be displayed for user to setup the camera configuration.

View Manager Panel

This section describes the preview mode available in preview functions.

Figure 32. Preview Mode

1. **Patrol Preview Toggle Button:** To enable or disable patrol preview function. Click on this button start patrol preview function, and the button will becomes . Click on this button again to stop patrol preview function.
2. **1-window preview Mode**: Click on this button to set the whole window with 1 preview window.
3. **4-window preview Mode**: Click on this button to set the whole window with 4 preview window.
4. **Jump to Camera 1**: Click on this button jump to a camera that is connected already. Camera 1 will be displayed in the active preview window with 1-window preview mode.
5. **Jump to Camera 4**: Click on this button jump to a camera that is connected already. Camera 4 is not connected yet; a Camera Configuration setup dialog box will be displayed. Camera 4 will be displayed in the active preview window with 1-window preview mode.

5 Record Mode

This chapter describes the operations over playback panel. Playback panel operates with search function closely as well.

Record Mode

In this release, there are four recording modes, including Manual Recording, Background Recording, Schedule Recording and Repeat Recording.

Manual-recording is the mode that user may click to start and stop manually.

Background-recording is the mode that let user to record channels without preview them. This recording will save a lot of CPU loading comparing with manual recording.

Schedule-recording is the mode that user may setup several independent schedules, and when the scheduled time reached, background recording will start recording and stop recording according to the schedule setup.

Repeat-recording is the mode that user may specify a threshold, so that when the hard disk space is not enough, older files will be deleted.

Manual Record Operation

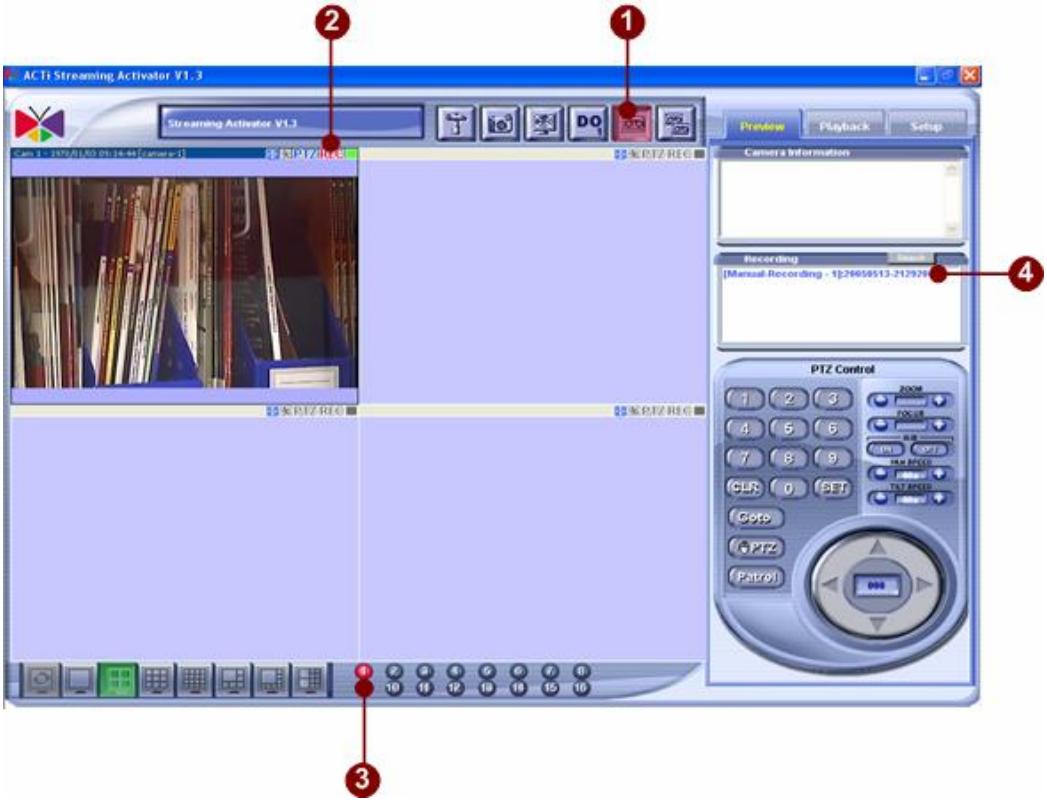


Figure 33. Manual Recording Operation

1. Click recording toggle button to start or stop manual-recording. Indicates that the specified camera is manual-recording at this moment.
2. When REC indicator is displayed (in **red** color), it indicates that this preview window is manual-recording. REC Indicates that current window is not manual-recording.
3. When the preview window is manual-recording, the channel indicator will be displayed in **red** color
4. Recording event list: In the event list; there will have a new record for this manual-recording event.

Background Record Operation

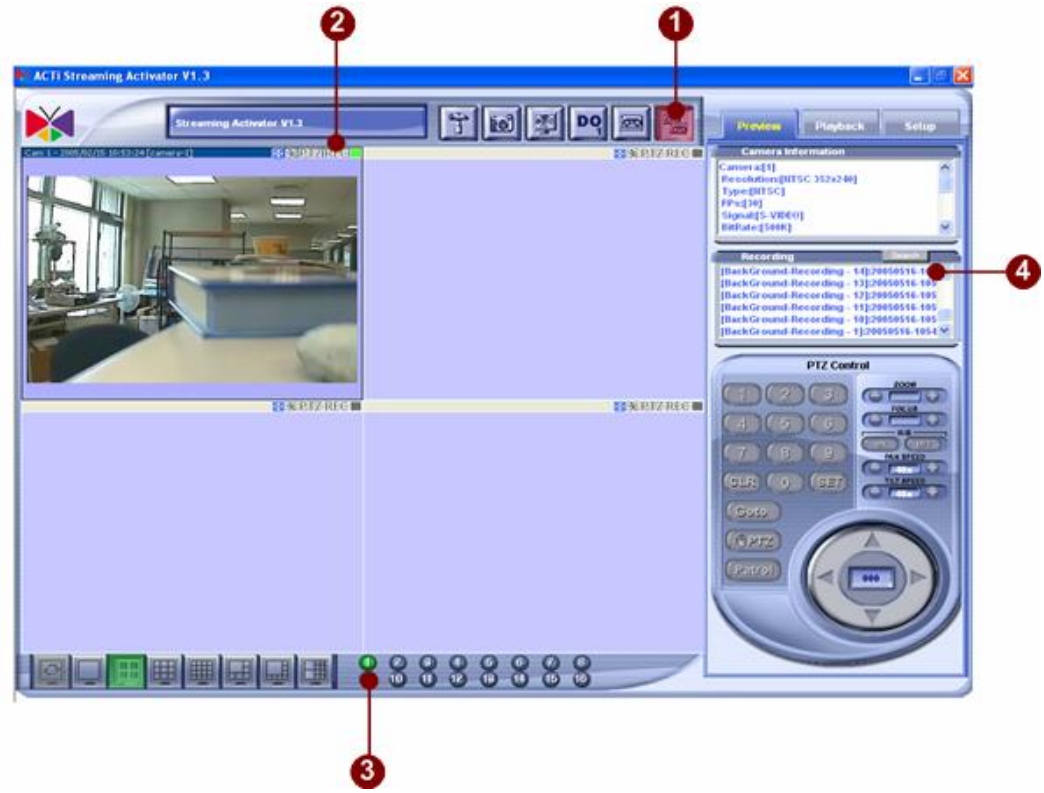


Figure 34. Background Recording Operation

1. Click record all toggle button to start or stop background-recording. indicates that the specified cameras are background-recording at this moment.

NOTE: When user clicks Record All button, the channels successfully set in the setup window(please refer to page 74 for camera setup) will be recorded. For example, if you have successfully setup channel 1, channel 3 and channel 5 in the camera setup, then these three channels will be recorded during background-recording.

NOTE: Due to the CPU performance, and network connection time, there will have 5 seconds initialization time, before all channels start recording.

.

NOTE: The files recorded by background-recording locate at the same directory as the file path recorded by manual-recording.

2. The REC indicator is displayed, and it is not in **red** color during background–recording mode.
3. When the preview window is background-recording, the channel indicator 1

will be displayed in **green** color, it will not change into **red** color.

4. Recording event list: In the event list; there will be all background-recording channels for recording event.

Schedule Record Operation

User may specify several schedules independently on each channel. Streaming activator will perform background-recordings according to the schedules. (Please refer to page 77 for recording setup details)

Figure 35. Schedule Recording Operation

1. Click on the camera number.
2. Input the schedule
3. Click on “Save” button to save and click “New schedule” to input new.
4. All schedules are listed here.

NOTE: Schedule-recording function will only work when the Streaming activator is on. If the Streaming activator is not on, nothing will be recorded even it is in the recording schedule.

Repeat Recording Operation

In this release, there is a new option in the recording setup. User may specify the lowest hard disk space threshold, if the threshold is reached, then some older files will be deleted according to your choice. Please refer to Page 77 for setup detailes.

Figure 36. Repeat Recording Operation

1. Delete File Path: The Activator will start to delete files in this folder and the subfolders of this folder.

NOTE: All sub-directories under this directory will be enlisted, and older files will be deleted...

2. Minimum Disk Space: the minimum disk space threshold.
3. Delete Action: when the Minimum Disk Space is reached, it will start to delete according to your setup here.the action will be taken

NOTE: Repeat Recording works with Manual Record Mode, Background Record Mode and Schedule Recording.

4. Click on “Apply” button to save...

6 Playback Mode

This chapter describes the operations over playback panel. Playback panels operate with search function closely as well.

Playback Panel

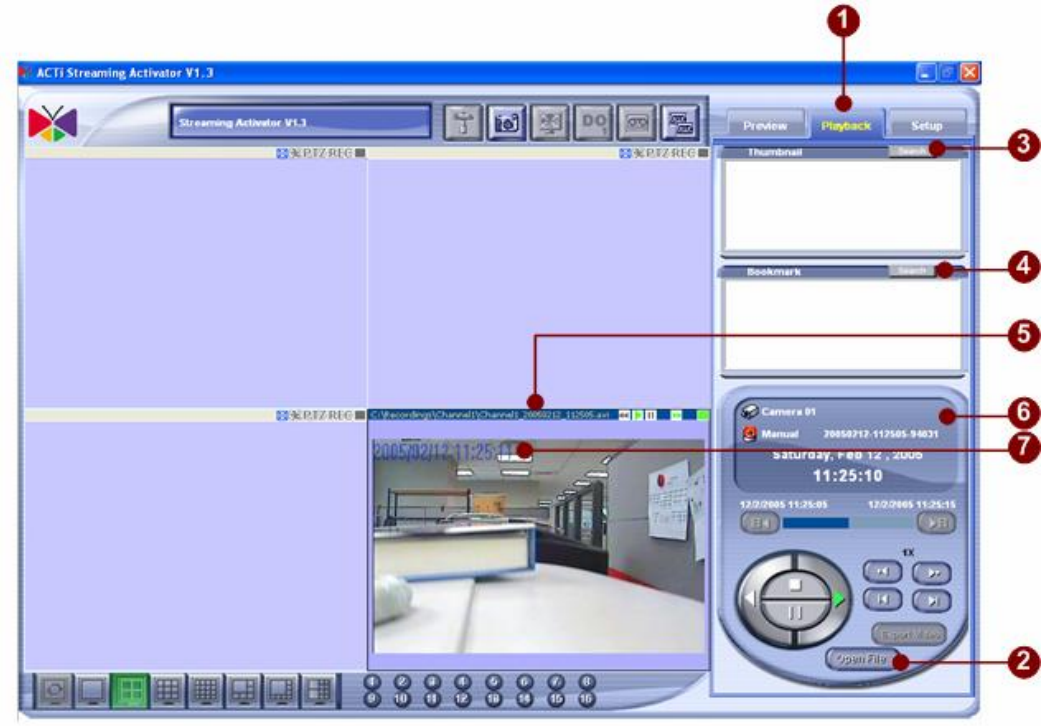


Figure 37. Playback Panel

1. **Playback Tab**: Click on the playback tab to invoke the playback mode
2. **Open File Button**: Click on the Open File button to open a dialog box to open a recoded file.
3. **Thumbnail**: Click on the Search button to display Event Search window.
4. **Bookmark**: Click on the Search button to display Event Search window.
5. **Active Playback window**: This window displays the playback video files
6. **Media Playback Panel**: Operates playback modes on the active playback window

Open Video File

The fastest way to start playback a media file is to use open file function. By clicking the Open File button, a "Open File Dialog Box" will pop up.

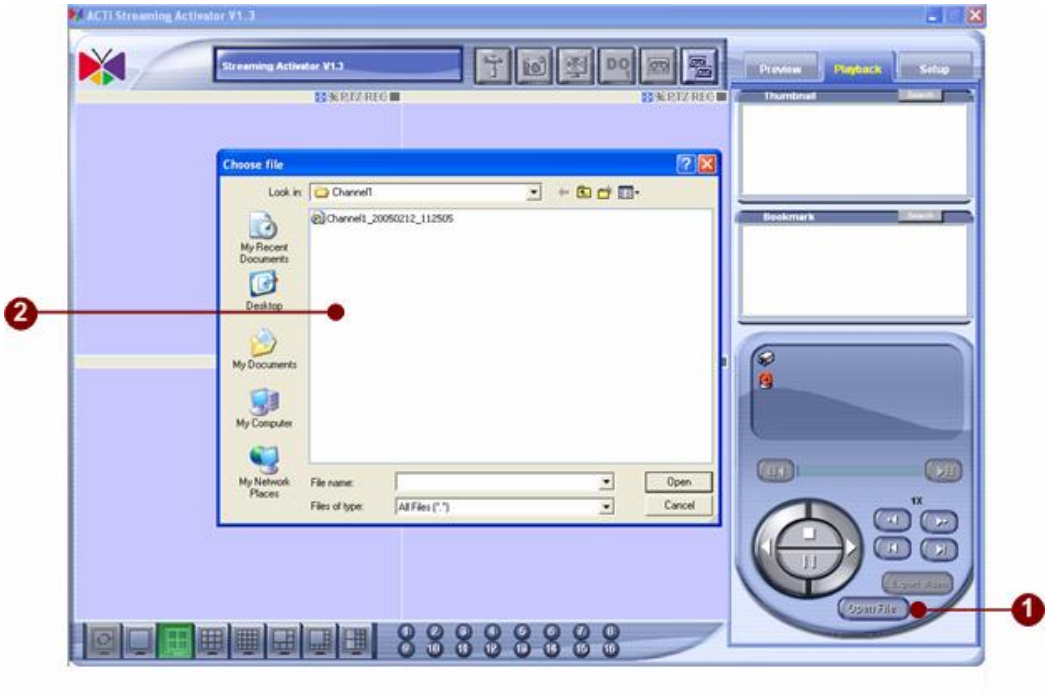


Figure 38. Open Media File

1. **Open File**: Click on the Open File button to open a pop-up file-browse window
2. **Browse File Button**: Click on the Browse File button to browse and select the media file to be played.

Media Control Panel Operations

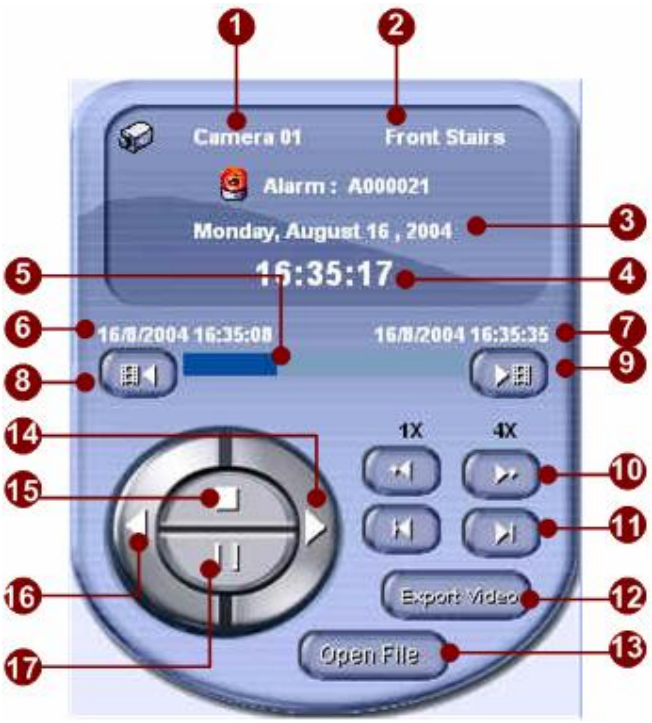


Figure 39. Media Control Panel

1. **Camera ID**: Displays the camera ID
2. **Camera Name**: Displays the camera name or camera description
3. **Date Stamp**: Displays the date stamp.
4. **Time Stamp**: Displays the time stamp
5. **Play Status Indicator**: Indicates current play indicator

NOTE: By clicking on the play status bar, you may reset the position to the point you click.

6. **Media Start Time Stamp**: Displays the starting time stamp of the media
7. **Media End Time Stamp**: Displays the ending time stamp of the media
8. **Play frame-by-frame in backward direction**: Play previous frame
9. **Play frame-by-frame in forward direction**: Play next frame

NOTE: If you want to play frame by frame you must pause the file first.

10. **Fast forward**: Fast forward , available speed are: 1X, 2X, 4X, 8X, 16X, 32X
11. **Go to End of File**: Click the button to jump to end of file, and click the button to jump to begin of file.
12. **Export Video**: If you select multiple files, then you may click the button to merge multiple files into one AVI file.
13. **Open File Button**: Click the

button to open a media file
14. **Play**: Click the button to play a media file
15. **Stop**: Click the button to stop playing a media file
16. **Play Backward**: Click the button to play a media file in backward direction
17. **Pause**: Click the button to pause playing a media file

Media Playback Window

Media playback window displays current media files. This window also can be operated and controlled by Media Control Panel as well.

Figure 40. Media Playback Window

1. **Media File Name**: Indicates the media file name to be played
2. **Enlarge / Shrink Window Button**: Click this button to enlarge and stretch the video size to fit the playback window size. Click this button again to reset the enlarged video size to its original size.

Capture Playback Screenshot

Following method may let users to capture screenshots when playing file:

Figure 41. Capture Playback Screenshot

1. **Capture Screen Button**: Click on the button to capture active preview window into an image file.
2. **Event List**: Event list will display the screen-capture event as **Manual-Thumbnail** event.

IMPORTANT: If you want to capture the original size, click button or click button or double click on left mouse key to enlarge the video size before capture the screen shot.

IMPORTANT: You may only capture the screen from specific files that is the files must be recorded in the database. If you want to upgrade your software, please don't forget to backup your database file.

Search Playback Files by Events

Users may find a recorded file by date, time and event lists.

Figure 42. Search Event

Event Search List

Event Search dialog box looks like following:

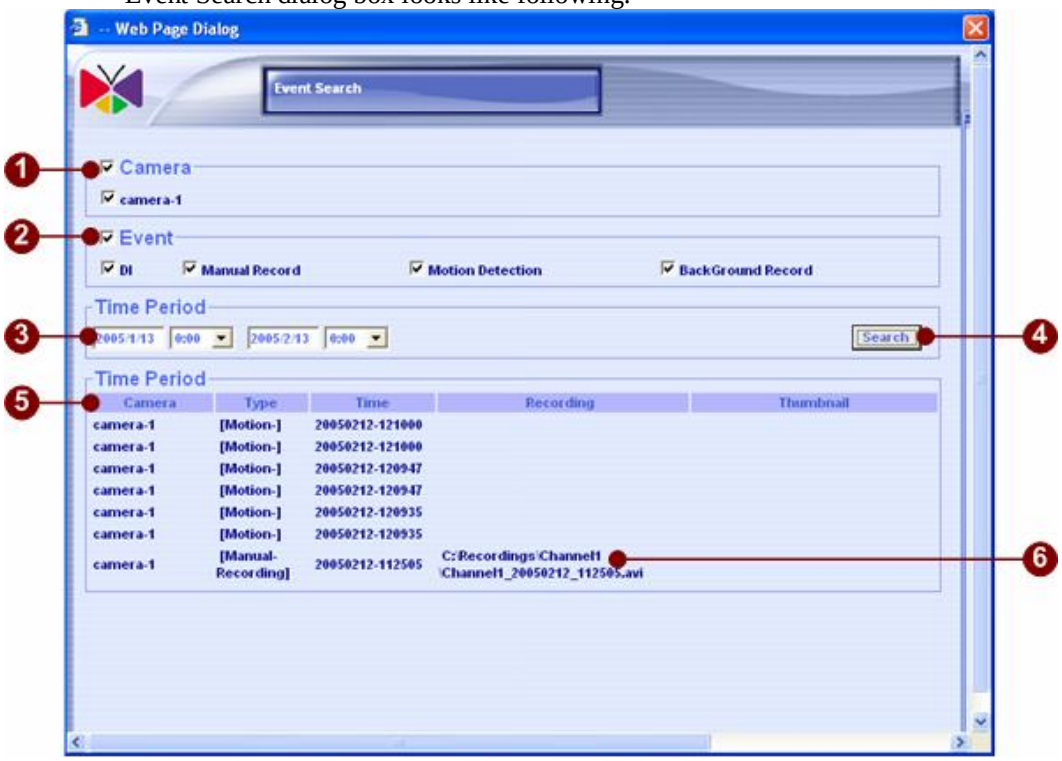


Figure 43. Event Search List

1. **Camera**: Lists the camera listing connected. Click on `Camera` check box to select or de-select all cameras.
2. **Event**: Lists the Event list for search. Available events are `DI`, `Manual Record`, `Motion Detection`, and `Background Record`. Click on `Event` check box to select or de-select all events.
3. **Time Period**: Select a start and end time period.
4. **Search Button**: Click this button to start search events
5. **Event Search List**: This list displays the recorded files that match the criteria.
6. **Event Detail**: Click on the event detail to start playing video.

7 PTZ Control Panel

This chapter describes the operations over PTZ Control panel and how to add new PTZ Protocol.

Pan, Tilt, Zoom Operation

ACTi Streaming Activator's PTZ control follows **Pelco-P** protocol. User may operate PTZ Control panel to operate the PTZ devices with Pelco-P protocol.

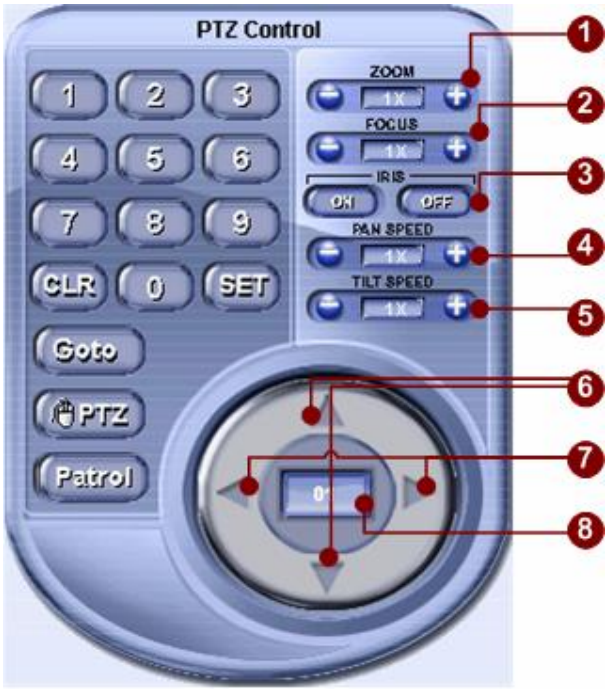


Figure 44. PTZ Control Panel

1. **Zoom function**: click to zoom in the view; click to zoom out the view
2. **Focus function**: click to sharpen the focus on the view; click to loosen the focus on the view
3. **IRIS function**: click ON to open the IRIS; click OFF to close the IRIS
4. **PAN Speed function**: click to increase the speed of pan operation; click to decrease the speed of pan operation

5. **TILT Speed function**: click to increase the speed of tilt operation; click to decrease the speed of tilt operation

6. **Tilt operation function**: click to tilt up; click to tilt down
7. **Pan operation function**: click to pan right; click to pan left
8. **Camera indicator**: indicates current active camera ID

PTZ Preset Position Operation

ACTi Streaming Activator's PTZ control has following functions on preset position operation:

- Save position
- Clear position
- Go to position
- Patrol on preset position
- Mouse PTZ function

Figure 45. PTZ Preset Panel

1. **Position Indicator**: indicates current position
2. **Key Pad**: click on the number key pad to set the position indicator. Position indicator is formed in 3-digit number.
3. SET **button**: save the position to the position indicator
4. CLR **button**: clear the position set in current position indicator
5. Goto **button**: go to the position set in current position indicator
6. PTZ **button:** toggles mouse PTZ mode. With mouse PTZ mode, user may click on the screen to do pan and tilt operation

7.

button: toggles patrol mode. By clicking this button, Activator will starts patrol with preset positions.

NOTE: Number of preset position is depending on the speed dome's specification.

NOTE: To setup the position for Pelco_P or Pelco_D as follow:

Move to the point à Key in the NO à

NOTE: To setup the position for Linlin as follow:

Key in the NO à

à Move to the point à

PTZ Speed Fast Setup

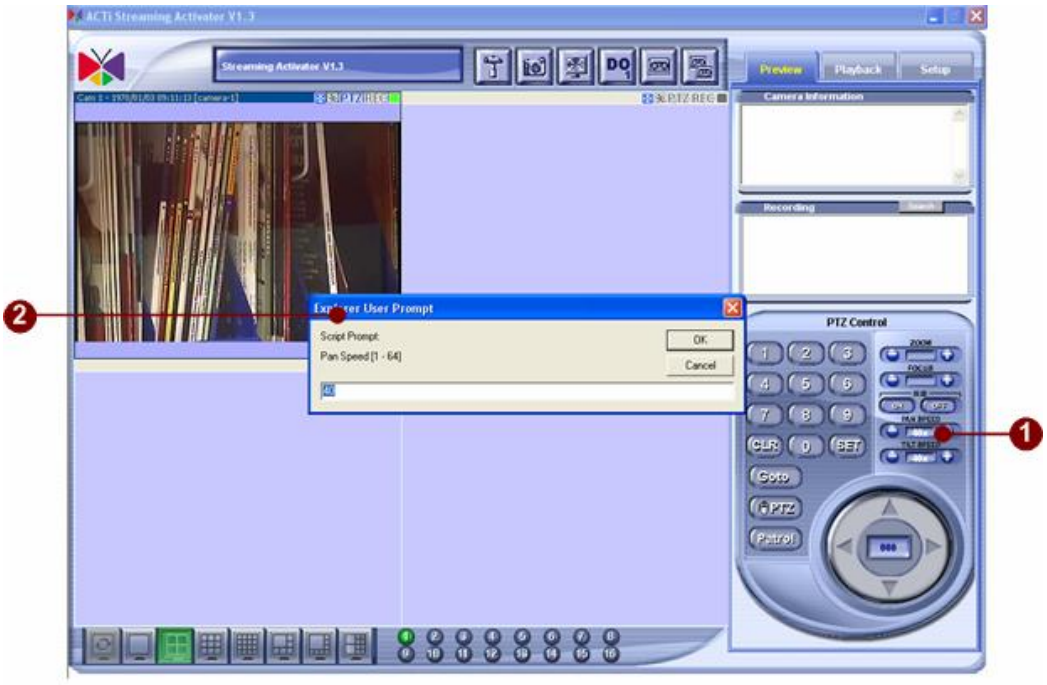


Figure 46. PTZ Speed Fast Setup

1. **Speed Label**: click on the speed label to popup setup window.
2. **Popup Window**: used to setup new speed for pan or tile.

Add New PTZ Protocol

ACTi Streaming Activator's PTZ control supports user defines PTZ Protocol.

Figure 47. Add New PTZ Protocol Setup

1. First, add a protocol.ptz file (ex. samsung.ptz).
2. Click on PTZ Setting.
3. Click on "Add Protocol" button.

About the protocol.ptz file, you can see the Appendix-A at page 92 for detailes.

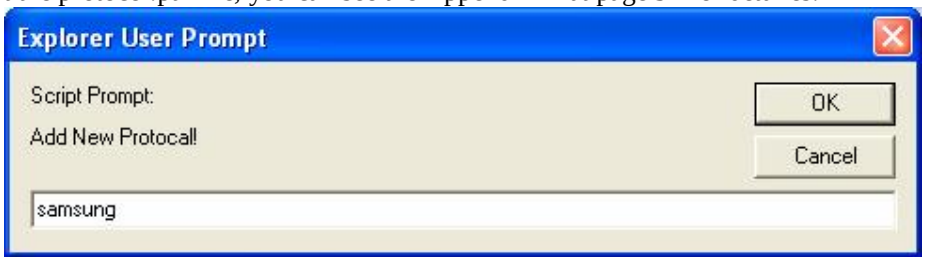


Figure 48. Input New PTZ Protocol Name

1. You can see this message.
2. Input the new protocol name (ex.samsung).

3. Click on “YES”

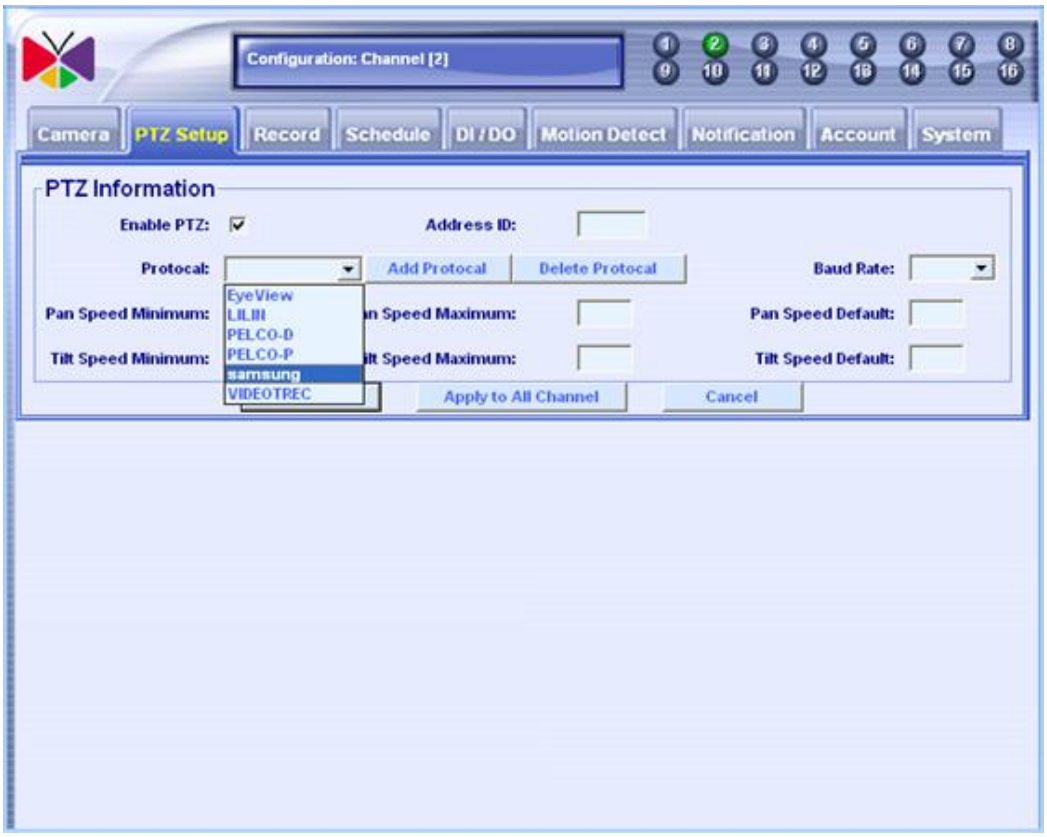


Figure 49. Choose the New PTZ Protocol

1. Copy the Samsung.ptz file to C:\Program Files\ACTi\StreamingActivator\
2. Run Activator software, and Go to PTZ Setting.
3. Enable PTZ, then you can see Samsung protocol.
4. Setup the PTZ information. Pan speed minimum, maximum, default; Tilt Speed minimum, maximum, default; address ID, Baud Rate.
5. After input, Click on “apply” button.

Figure 50. Go to Preview Mode and Test New PTZ Protocol

1. Go to Preview mode.
2. Click on the camera number, and then you can use new PTZ function.

8 Motion Detection

This chapter describes the operations over Motion Detection Setup.

Montion Detection Setup step by step

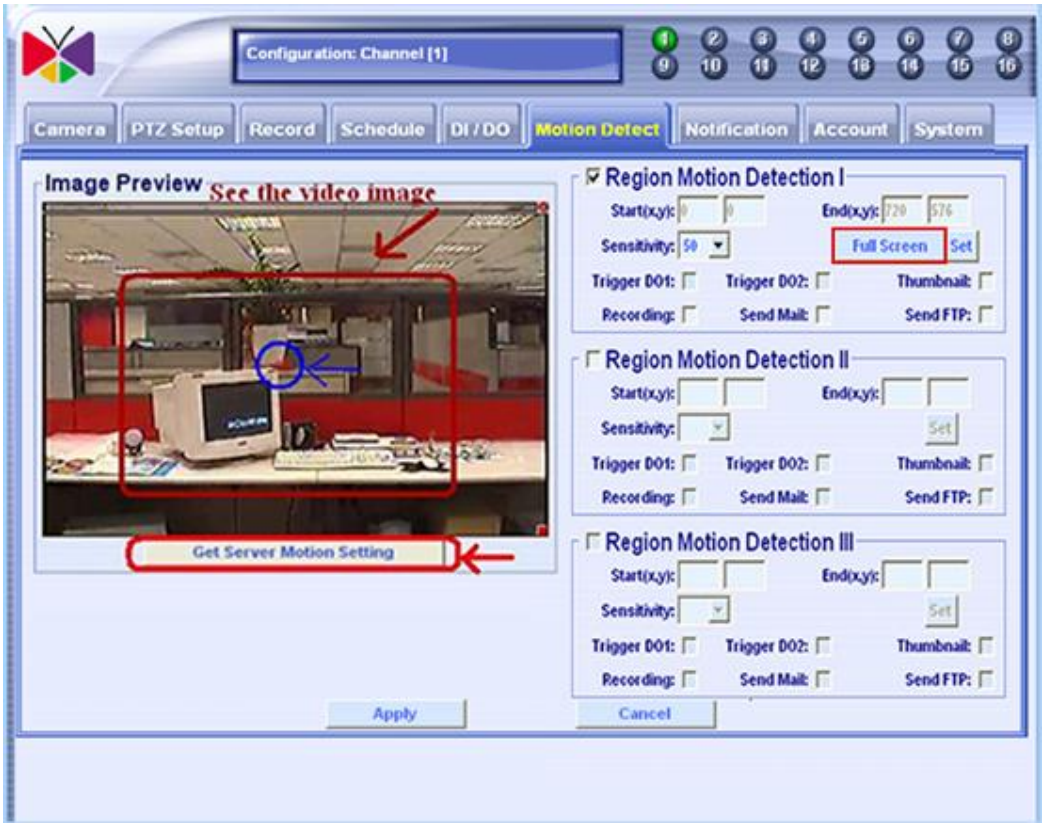


Figure 51. Motion Detection Setup Box

1. Before you start the setup. Please **disconnect all preview channels**.
2. Select Motion Detection do Setup
3. Press “Get Server Motion Setting” button to image preview
4. Enable the Regional Motion Detection I
5. Then Click “Full Screen” button
6. Auto-Enter the sensitivity numbers.
7. Change sensitivity setting (Default is 50).
8. After you set it success, you will see the video screen and a red frame.

IMPORTANT: If the video image does not show up, it means that this video server cannot be connected correctly or the account / password to access this video server is not correct.

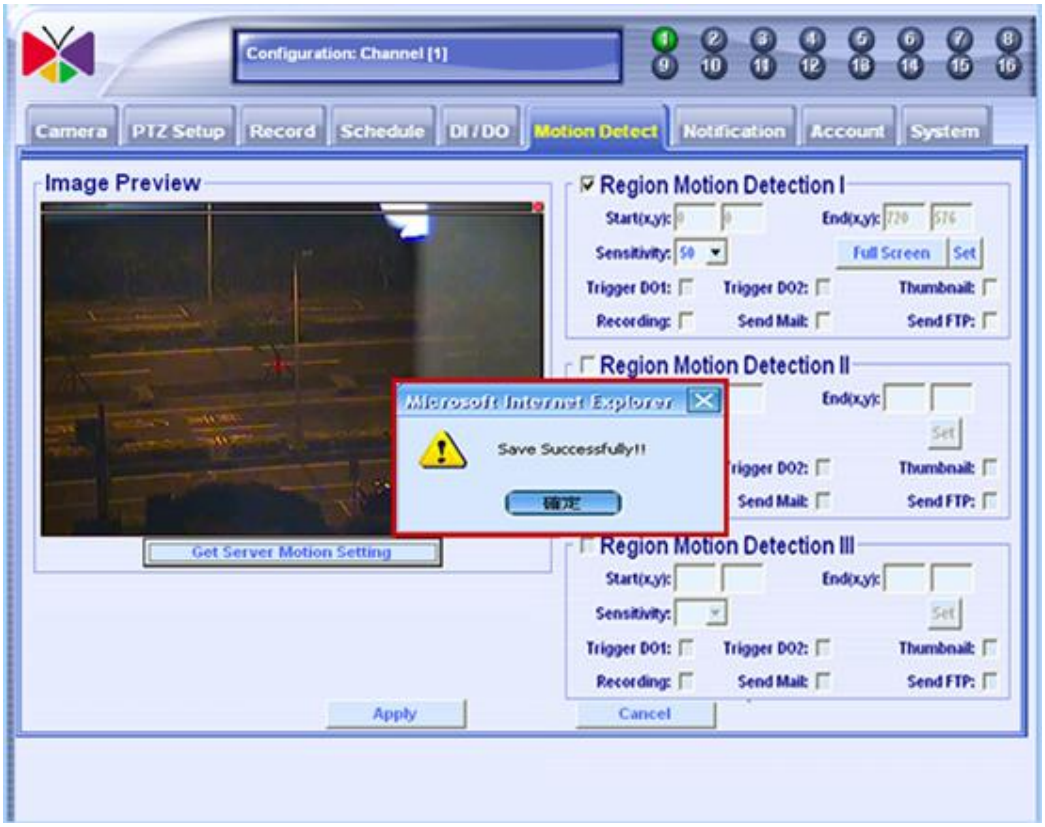


Figure 52. Save Successfully

1. Click on the Apply button.
2. You will see “Save successfully” message.

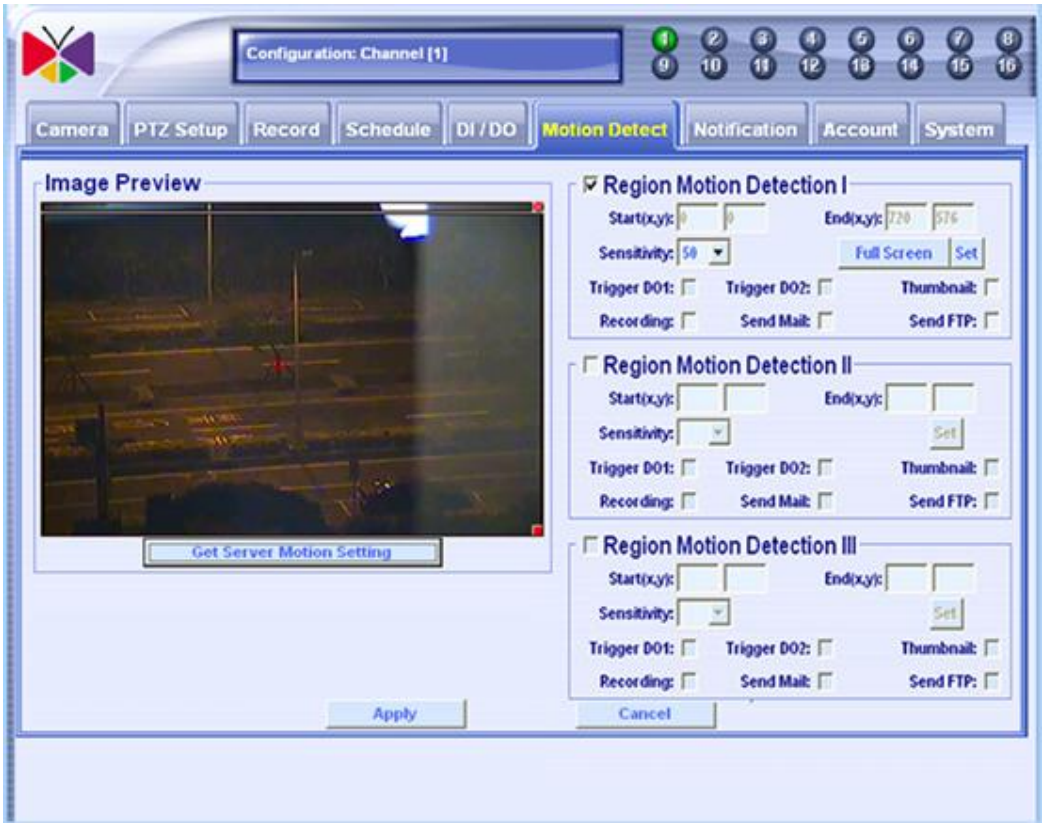


Figure 53. Motion Detection Setting is saved to Firmware

1. The Motion Detection setting is saved to the firmware.

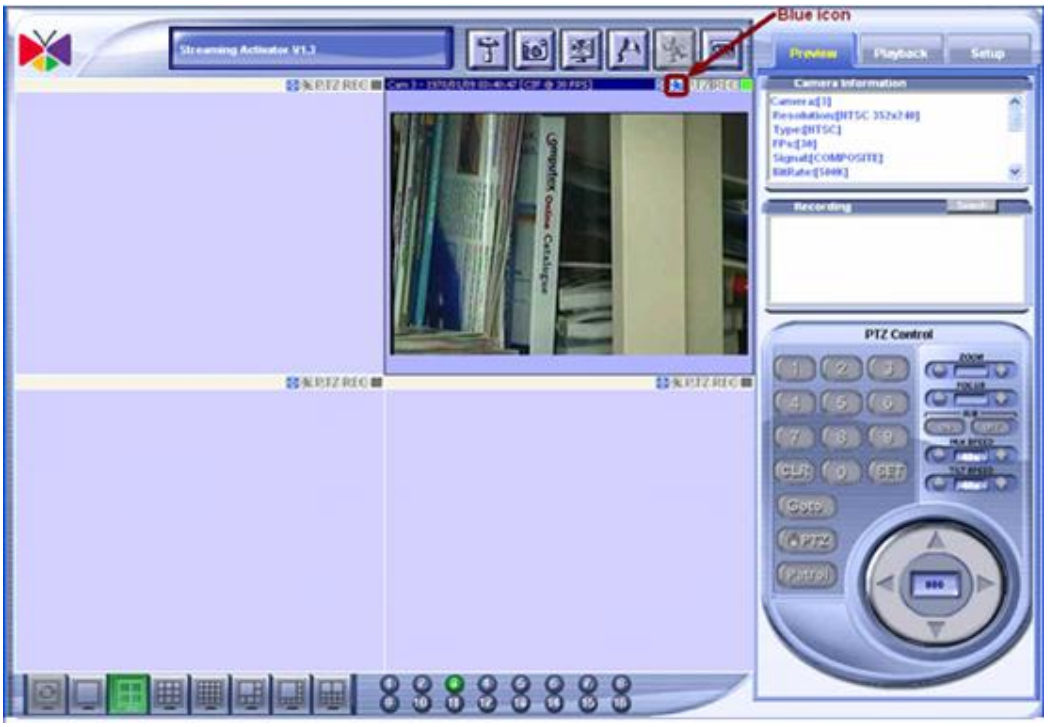


Figure 54. Motion Detection Preview

1. Go to preview.
2. Click on the camera.
3. You can see the blue icon on the bar.

When the Motion Detection function runs, you can see a **red frame** on video screen, and the little icon will be change to **red**.

Figure 55. Motion Detection Function Running

Examples A: Motion Detection Setup Correctly

Here are some examples on how we set Motion Detection:

Indoor (TCP Connect): Full Screen / Sensitivity: 50 or higher

Indoor (Multicast Connect): Full Screen / Sensitivity: 70 or higher

Indoor

Figure 56. Enable Indoor Full Screen Motion Detection Function

1. Enable Region Motion Detection I.
2. Press “Full Screen” button.
3. Then click “Apply” button to save.

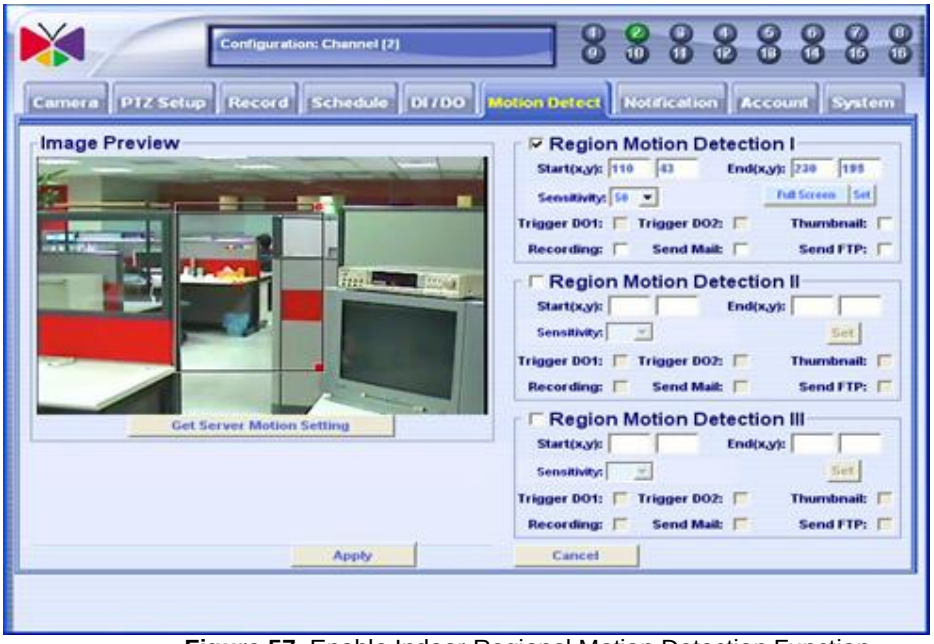


Figure 57. Enable Indoor Regional Motion Detection Function

4. Or sets the regional motion detection on the entrance.

Figure 58. Full Screen / Regional Motion Detection Function Running

Outdoor (TCP Connect): Full Screen / Sensitivity: 60 or higher

Outdoor (Multicast Connect): Full Screen / Sensitivity: 70 or higher

Outdoor

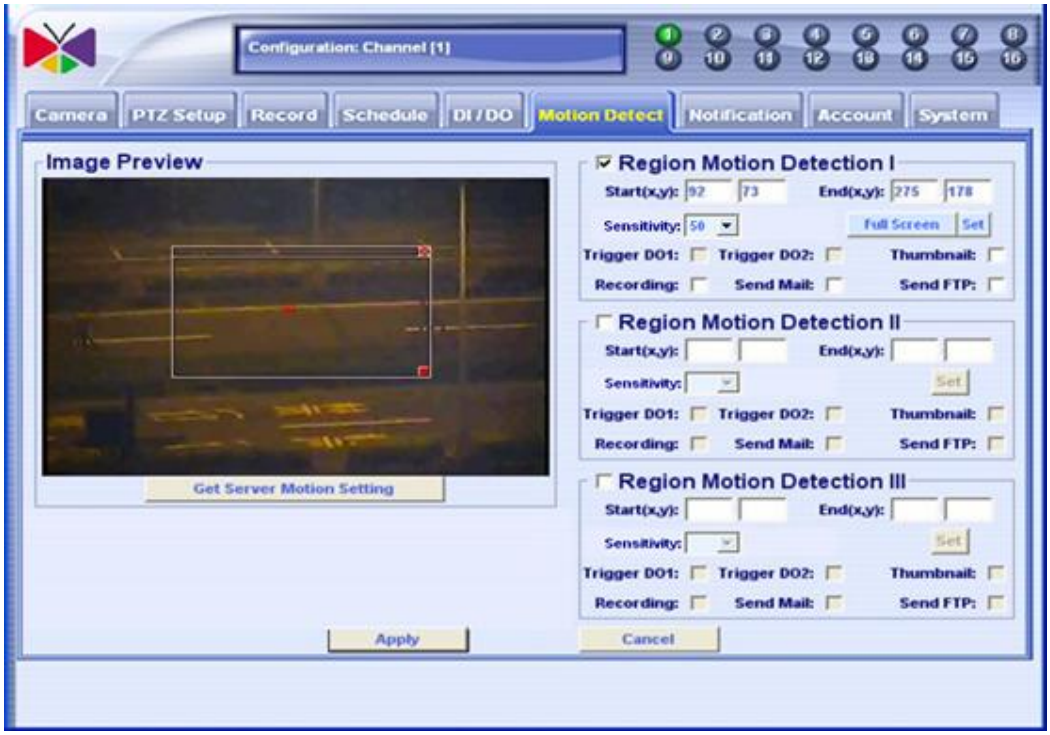


Figure 59. Enable Outdoor Motion Detection Function

1. Enable Region Motion Detection I
2. Press “Set” button
3. Sets the regional motion detection on the entrance
4. then click “Apply” button to save

Figure 60. Regional Motion Detection Function Running

Examples B: Motion Detection III Setup Correctly

Indoor (TCP Connect): Full Screen / Sensitivity: 50 or higher
Indoor (Multicast Connect): Full Screen / Sensitivity: 70 or higher
Outdoor (TCP Connect): Full Screen / Sensitivity: 60 or higher
Outdoor (Multicast Connect): Full Screen / Sensitivity: 70 or higher

Figure 61. Enable Regional Motion Detection I and II

1. Select the Motion Detection Setup
2. Click on “Get Server Motion Setting” button to Image Preview
3. Enable Region Motion Detection I, click on “Set” button, and then you will see the first red frame.
4. Enable Region Motion Detection II, click on “Set” button, and then you will see the second red frame.
5. Click on “Apply” button to save.
6. If you can see “Save Successfully” message, your setting is successful.

Figure 62. Enable Regional Motion Detection III

1. Click on “Get Server Motion Setting” Button to check MDI and MDII.
2. Enable Region Motion Detection III, click on “Set” button, and then you will see the third red frame.
3. Click on “Apply” button to save.
4. If you can see “Save Successfully” message, your setting is successful. And it is done.

9 Setup Streaming Activator

This chapter describes the setup procedures in ACTi Streaming Activator.

Setup Dialog

To setup the parameters in Streaming Activator, click on the Setup tab.

Figure 63. Setup Streaming Activator Parameters

Setup Category

ACTi Streaming Activator setup parameters are categorized into following categories.

Figure 64. Setup Category

1. **Camera Setup**: Click on this button to setup camera information.
2. **PTZ Setup**: Click on this button to configure connected PTZ devices.
3. **Recording Setup**: Click on this button to setup recording parameters.
4. **Schedule Setup**: Click on this button to setup Schedule recording parameters.
5. **DI/DO Setup**: Click on this button to configure digital input and digital output devices.
6. **Motion Detection Setup**: Click on this button to setup motion detection information.
7. **Notification Setup**: Click on this button to setup event notification mechanism.
8. **User Account**: Click on this button to setup User Account permission.
9. **System Setup**: Click on this button to setup system overall parameters.

Setup Category Dialog Box

This chapter describes how to operate in a setup dialog box.

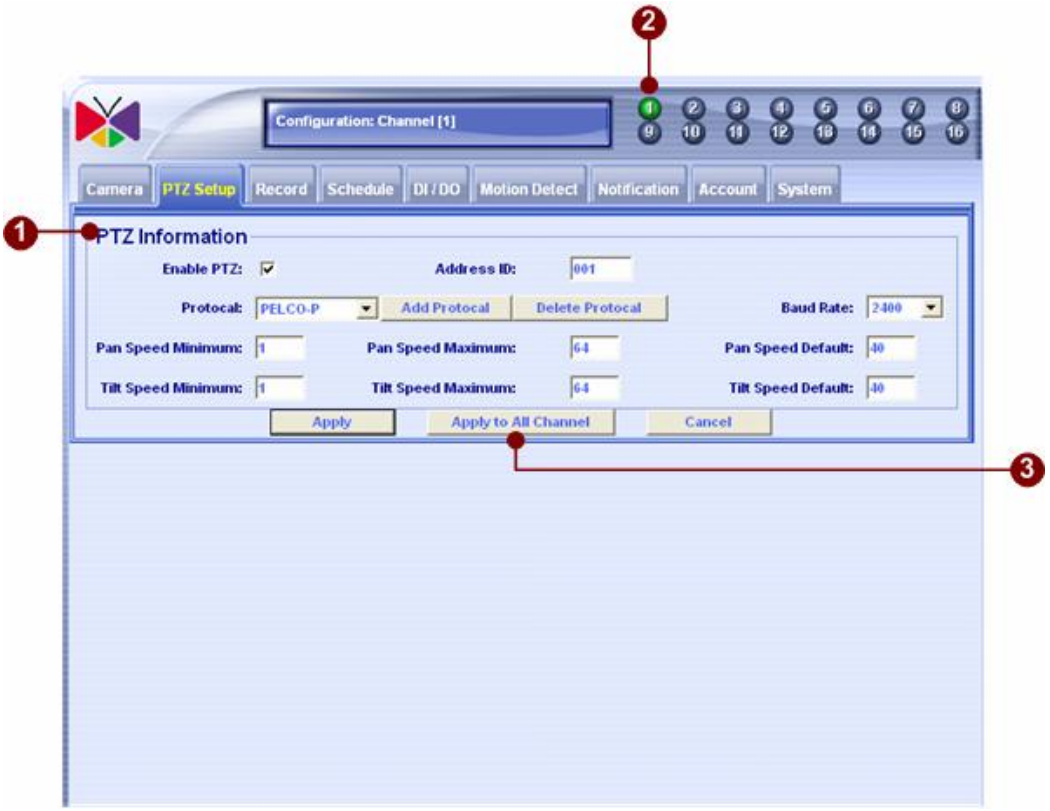


Figure 65. Setup Dialog Box Operation

1. **Function Category Tab**: Click on tab to choose the category of function for setup
2. **Channel Selection**: Click on channel number to switch to any channels directly
3. **Apply to All Channel button**: Click on `Apply to All Channel` button to apply this settings to all channels at the same time

Camera Setup Dialog Box

This chapter describes how to operate in a setup dialog box.

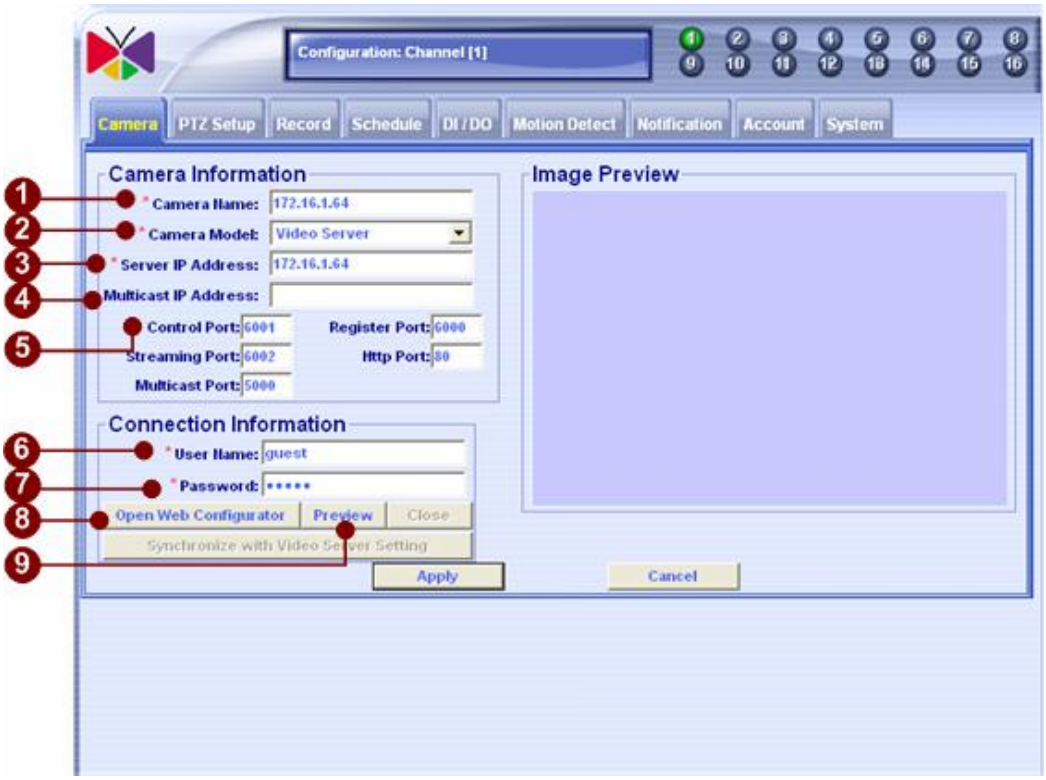


Figure 66. Camera Setup Dialog Box

1. **Camera Name***: Input a camera name or description to describe the camera.

NOTE: The content of the camera name will be displayed on top of the preview media window.

2. **Camera Model***: Choose the camera model within a selection list; including:
   - **Video Server**
   - **IP Camera**
   - **IP Speed Dome**
   - **AXIS**
3. **Server IP Address***: Connect to the video server with unicast (TCP) connection

NOTE: You may enter host name address in this field as well. Make sure the host name can be resolved by DNS (Domain Name Server) in your network environment. This operation can also be verified by using ping command:

```
C:\>ping hostname.acti.com
```

4. **Multicast IP Address**: Subscribe to a multicast network to retrieve video packets.

NOTE: If Multicast IP address is entered without Server IP address, then the preview window can only perform preview function.

If Multicast IP address and Server IP address are keyed in, then the preview window can perform preview and Digital I/O and PTZ operations. The limit of concurrent connection is 15.

5. **Port Setup** : the port number to be authorized by the video server
6. **User Name**: the account to be authorized by the video server
7. **Password**: the password to be authorized by the video server
8. **Open Web Configurator** button: click this button to open video server's Web Configurator directly
9. **Preview** button: click this button to see the preview window and adjust frame rate and video quality.

Camera Setup Dialog Box in Video Server

This section describes the detail operations on Frame information and Video adjustment.

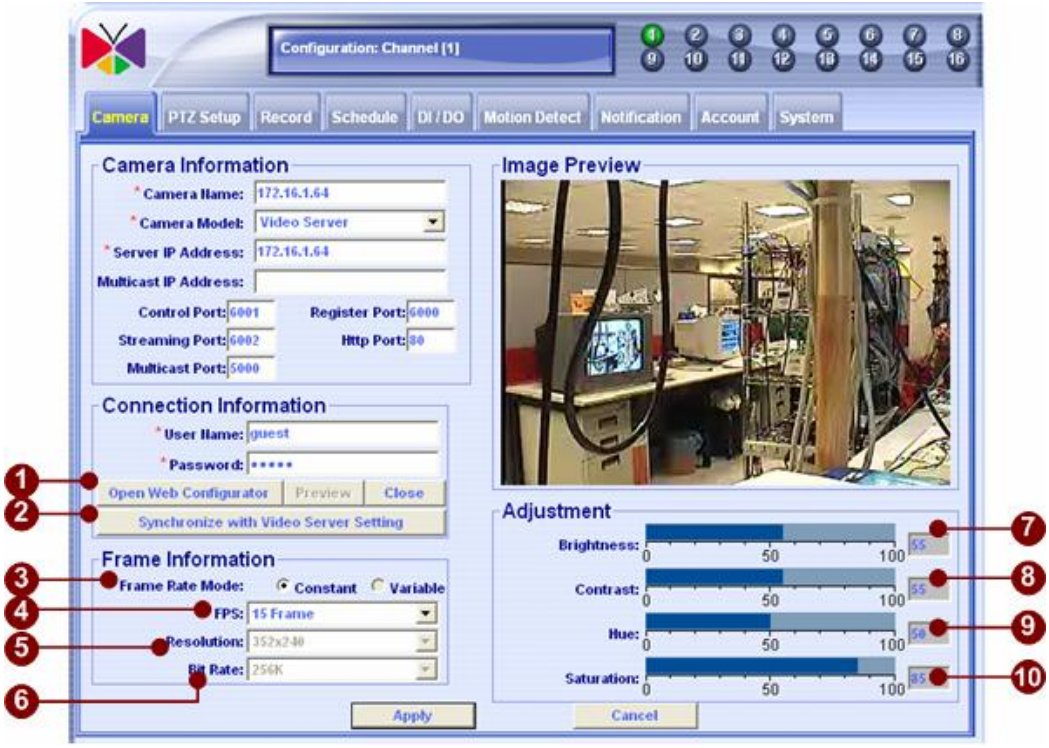


Figure 67. Camera Setup on Video Server Dialog Box

1. **Open Web Configurator** button: Click this button to open browser and connects to the video server via Web Configurator directly

IMPORTANT: The updated settings only effective while the video server is on. If the video server is rebooting, then the settings will be gone and original settings on the video server will be set.

To make the changes permanent, one has to open Web Configurator on the video server, change the settings, and click on Save and Reboot link to make it effective permanently.

2. **Synchronize with Video Server Setting** button: Click this button to synchronize and retrieve related frame rate and video adjustment settings from video server.
3. **Frame Rate Mode**: Indicates `Constant` frame rate or `Variable` frame rate; this is the setting from video server.

NOTE: Constant frame rate indicates all connections accept the same frame rate specified by Video Server.

Variable frame rate indicates that each connection may have different frame rate

4. **FPS**: You may set the number of frame per second displayed. This will update the setting in Video Server directly.
   - Available FPS for constant frame rate (NTSC): 30, 15, 10, 7, 6, 5, 4, 3, 2, 1
   - Available FPS for constant frame rate (PAL): 25, 12, 8, 6, 5, 4, 3, 2, 1
   - Available FPS for variable frame rate (NTSC): 30, 6, 3, 1
   - Available FPS for variable frame rate (PAL): 25, 5, 3, 1

TIPS: By adopting variable frame rate, the connections to the same video server may have different frame rate.

5. **Resolution**: Displays the resolution set on the video server
6. **Bit Rate**: Displays the bit rate set on the video server
7. **Brightness:** Sets the brightness value
8. **Contrast:** Sets the contrast value
9. **Hue:** Sets the Hue value
10. **Saturation:** Sets the saturation value

PTZ Setup Dialog Box

This section describes how to setup PTZ configuration.

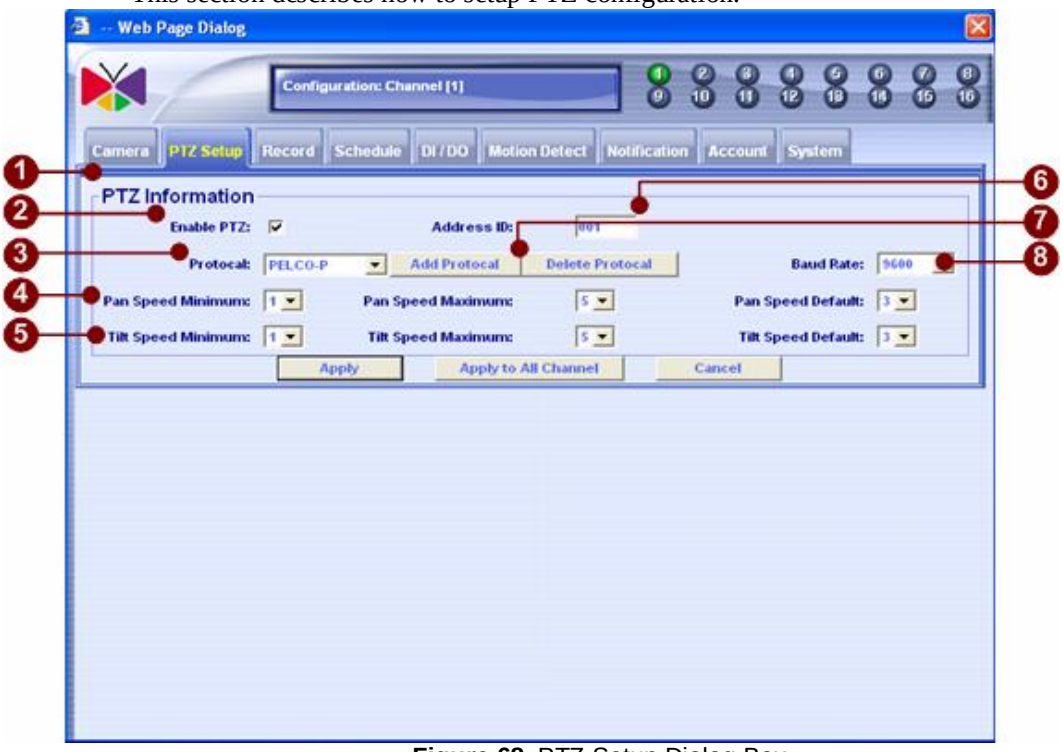


Figure 68. PTZ Setup Dialog Box

1. **PTZ Information**: about PTZ information.
2. **Enable PTZ**: Enable or disable PTZ control function on this camera.
3. **Protocol**: Supported PTZ protocols are `Pelco-P(type1), Pelco-P(type2), Pelco-P(CAM-6100), Pelco-P(CAM-6200), Pelco-P(CAM-6300), Pelco-P(CAM-6400), ,Pelco-D, Pelco-D(CAM-6100), Pelco-D(CAM-6200), Pelco-D(CAM-6300), Pelco-D(CAM-6400), Videotrec, Samsung, Eyeview VCL, Eyeview` and `Dynacolor .`
4. **Pan Operation Settings:** Select your pan speed from 1 (minimum) ~5(maximum).
5. **Tilt Operation Settings** Select your tilt speed from 1 (minimum) ~5(maximum).
6. **Address ID**: Setup Speed Dome Address ID. The Address ID just supports 001.
7. **Add / Delete Protocol**: Supports Customer's defining PTZ Protocol.
8. **Baud Rate**: Supports different baud rate.

Recording Dialog Box

This section describes recording related setup.

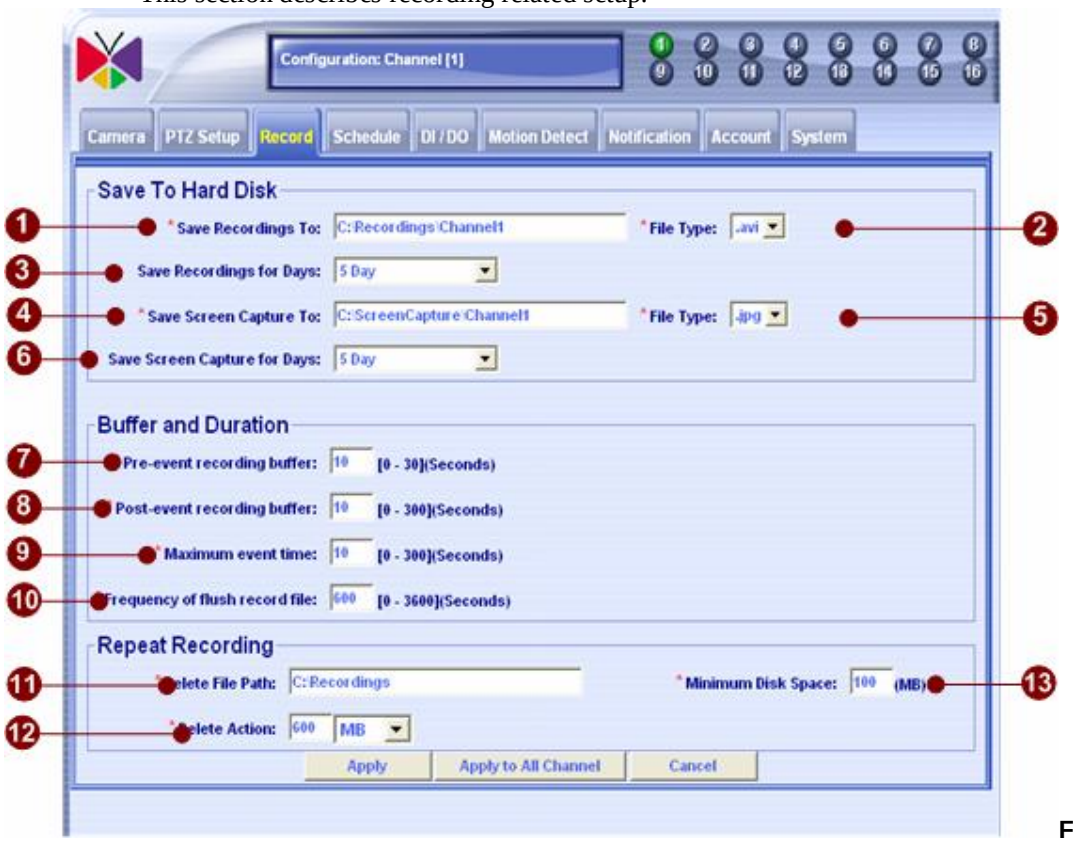


Figure 69. Recording Setup Dialog Box

1. **Save Recordings To**: The directory to save the recorded files.

NOTE: If you choosing "Apply to All Channel", all the recording files will be saved in the same directory.

NOTE: The directory can be a local hard-disk, RAID storage, NAS storage or mounted storage linked with NetBEUI. Following command is a sample to link a virtual drive with NetBEUI.

```
C:\>net use G: \\nas-server\D$\Recording
```

2. **File Type**: Supported file type are `AVI` now.

NOTE: The content of the AVI format is standard MPEG4 raw data. In order to view this AVI file, on the local machine, user has to install FFDSHOW (MPEG4 Codec for DirectX platform) which can be downloaded from ACTi web site or retrieved from the bundled CD.

3. **Save Recordings for Days**: The aged recording files will be removed after the number of days specified in this field. If this field is left as blank, then the aged files will not be removed.
4. **Save Screen Capture To:** The directory to save the screen capture image files. Refer to `Save Recordings To` notice for advanced configuration.
5. **File Type:** Specifies the image file type for the screen capture file; supported formats are: `JPG`, `GIF` and `BMP`.
6. **Save Screen Capture for Days**: The aged screen capture image files will be removed after the number of days specified in this field. If this field is left as blank, then the aged files will not be removed.
7. **Pre-event recording buffer (seconds):** Specifies a buffer in number of seconds to keep before a certain event occurs.

NOTE: This value works with motion detection event, digital in event.

8. **Post-event recording buffer (seconds):** Specifies a buffer in number of seconds to keep after a certain event occurs.
9. **Maximum event time (seconds):** This value specifies that within this period of time, all events generated will be ignored.

NOTE: For example, if an event occurs repeatedly in a short period of time, this value is to prevent the system from recording a new event-recording file every second.

10. **Frequency of flush record file (seconds):** This value specifies that a new file will be generated after the amount of time set in this value.
11. **Delete File Path:** Delete File Path is the path that Activator will start to delete files

NOTE: All sub-directories under this directory will be enlisted, and older files will be deleted.

12. **Minimum Disk Space:** the minimum disk space to be kept in the hard disk.
13. **Delete Action:** when the Minimum Disk Space is reached, it will delete an amount size of older files according to your selection here.

NOTE: Repeat Recording works with Manual Record Mode, Background Record Mode and Schedule Recording.

Schedule recording

This section describes how to setup schedule recording.

Figure 70. Schedule recording Dialog Box

1. **Schedule ID:** This is the schedule ID given by the Streaming Activator, this number will show up once you input other columns. This ID is not changeable.
2. **Schedule Name:** You can input any words for you to easy memorize this schedule.
3. **Enable:** Click to select True(enable) or False(disable)
4. **Period:** Click to select the start date and the end date of this schedule recording.
5. **Daily schudule:** Click to select the start time and the end time of this schedule recording in a day.
6. **New schedule:** Click to to start a new schedule.

   Save: Click to save this schedule.

   Delete: Click to delete this schedule.
7. **Schedule List:** Show all schedule listing.

NOTE: Be sure to save your desired schedule. Your schedule will works only after you saved it.

Digital I/O Dialog Box

This section describes how to setup digital I/O and related notification mechanism.

Figure 71. Digital I/O Dialog Box

8. **Output Information:** Enable or disable DO1 and DO2.
9. **DI1 Information:** Specifies digital IN 1 related information; including options to
   - `Trigger DO1`: triggers Digital Output 1 relay when a digital input event occurs
   - `Trigger DO2`: triggers Digital Output 2 relay when a digital input event occurs
   - `Create Thumbnail`: capture image and resize to a thumbnail; the size of the thumbnail is the same as the resolution of the streaming.
   - `Create Recordings`: record video clips; the `pre-event` and `post-event recording` buffer is defined in `Recording Tab`.
   - `Send Mail`: send mail with thumbnail image attached; the SMTP setup is specified in `Notification Tab`
   - `Send FTP`: FTP the thumbnail image to a FTP server; the FTP setup is specified in `Notification Tab`

10. **DI2 Information:** Specifies digital IN 1 related information; refer to DI1 information for the related options

Motion Detection Dialog Box

This section describes how to setup motion detection and related notification mechanism.

Figure 72. Motion Detection Setup Dialog Box

1. **Image Preview:** Displays current image preview with regional motion detection block.
2. **Get Server Motion Setting:** get the motion detection setting from video server.
3. **Regional Motion Detection I – III:** If this option is enabled, then this regional motion detection applies to the whole image screen.
   - `Start X, Y:` indicates starting X, Y position of the region selected
   - `End X, Y:` indicates ending X, Y position of the region selected
   - `Sensitivity:` sets sensitivity on the motion detection algorithm. 100 is very sensitive.
   - `Trigger DO1:` triggers Digital Output 1 relay when an motion detection event occurs
   - `Trigger DO2:` triggers Digital Output 2 relay when an motion detection event occurs
   - `Thumbnail:` capture image and resize to a thumbnail; the size of

the thumbnail is defined in the Thumbnail Size in Output Information section

- Recording: record video clips; the pre-event and post-event recording buffer is defined in Recording Tab.
- Send Mail: send mail with thumbnail image attached; the SMTP setup is specified in Notification Tab
- Send FTP: FTP the thumbnail image to a FTP server; the FTP setup is specified in Notification Tab

4. **Full Screen:** When you enable the Region Motion Detection I and click on this button, then the motion detection I applies to the whole image screen. And you can not enable Region Motion Detection II, III.
   - Sensitivity: sets sensitivity on the motion detection algorithm. 100 is very sensitive.
   - Trigger DO1: triggers Digital Output 1 relay when an motion detection event occurs
   - Trigger DO2: triggers Digital Output 2 relay when an motion detection event occurs
   - Thumbnail: capture image and resize to a thumbnail; the size of the thumbnail is defined in the Thumbnail Size in Output Information section
   - Recording: record video clips; the pre-event and post-event recording buffer is defined in Recording Tab.
   - Send Mail: send mail with thumbnail image attached; the SMTP setup is specified in Notification Tab
   - Send FTP: FTP the thumbnail image to a FTP server; the FTP setup is specified in Notification Tab

Figure 73. Full Screen Motion Detection Setup

NOTE: To enable the motion detection function you have to check the checkbox. You may also test the function by clicking the Set button in each block.

NOTE: Please follow following suggestions on the sensitivity level settings:

1. Indoor (TCP Connection): Sensitivity set to 50 or higher
2. Indoor (Multicast Connection): Sensitivity set to 70 or higher
3. Outdoor (TCP Connection): Sensitivity set to 60 or higher
4. Outdoor (Multicast Connection): Sensitivity set to 70 or higher

Notification Dialog Box

This section describes how to setup motion detection and related notification mechanism.

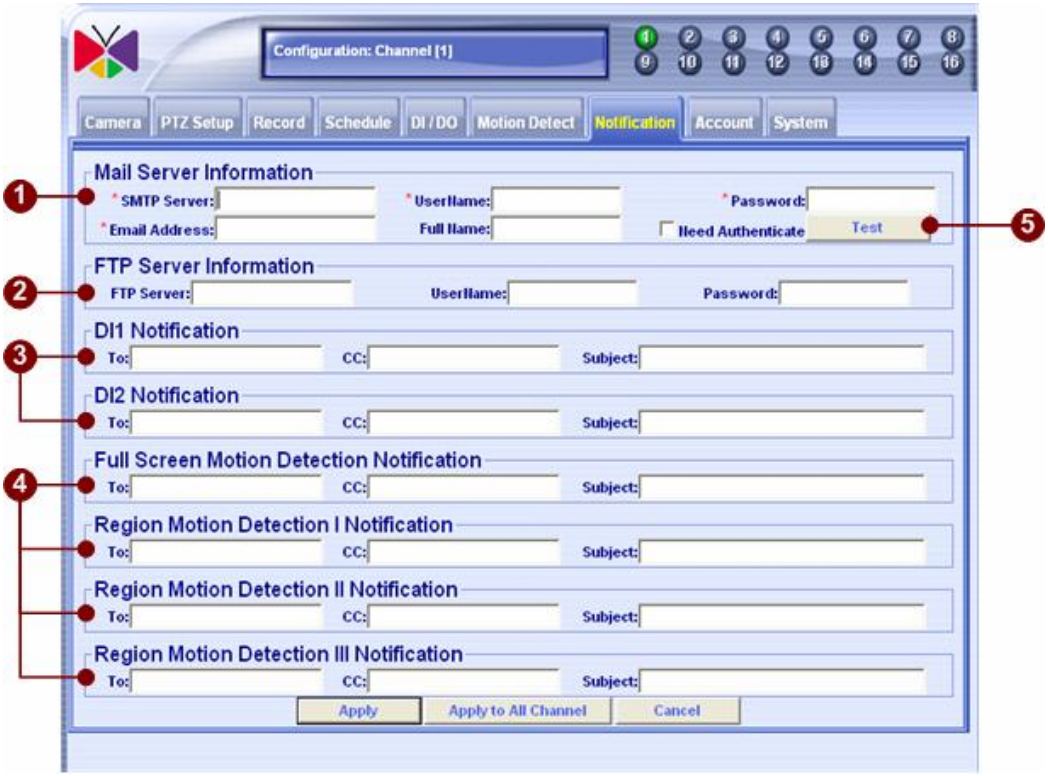


Figure 74. Notification Setup Dialog Box

1. **Mail Server Information:** Specifies the SMTP server information
   - `SMTP Server`: sets to the outgoing mail server address
   - `UserName`: the account to login to the SMTP server
   - `Password`: the password to login to the SMTP server
   - `Email Address`: the E-Mail address of the sender
   - `Full Name`: the name of the sender
   - `Test` button: click on the button to test if the account/password is authorized correctly
2. **FTP Server Information:** Specifies the FTP server information
   - `FTP Server`: sets to the FTP server address
   - `UserName`: the account to login to the FTP server
   - `Password`: the password to login to the FTP server
3. **DI1, DI2 Notification:** Specifies related information when digital input is

triggered

- `To`: the receiver's E-Mail address
- `CC`: the cc copy E-Mail address
- `Subject`: the subject of the E-Mail sent

4. **Full screen, regional motion detection I-III Notification:** Specifies related information when motion detection event occurs
   - `To`: the receiver's E-Mail address
   - `CC`: the cc copy E-Mail address
   - `Subject`: the subject of the E-Mail sent

User Account Dialog Box

This section describes how to setup user account and the permission.

Figure 75. User Account Dialog Box

1. **Account Information:** about User Account information.
   - `User ID`: input new User ID. When you login, you need use the ID to login.
   - `User Name`: input new user name. This name will be show on the preview window.
   - `Password`: input the password.
   - `Description`: simple description about new account.
   - `Active Date`: the user's active date. The format is year/mouth/day.
   - `Expire Date`: the user's expire date. The format is year/mouth/day.
   - `User Role`: appoint account different group.
2. **function button:**
   - `Search Button`: input you want to search user ID, then click on to search.
   - `New Account Button`: Clean all information on the column.
   - `Save Button`: save the information about new user account.

- `Delete Button`: delete you want to delete account.
- `Description`: simple description about new account.
- `Active Date`: the user's active date.
- `Expire Date`: the user's expire date.

3. **All account and Group Listing:** show listing about all account and Group.

NOTE: There are three groups on system default, you can not add or delete one.

Default Group	Default Permission
Administrator	Can Preview, PlayBack, Setup
Standard User	Preview and PlayBack, not Setup
Guest User	Only Preview

Figure 76. Default Permission Control

System Dialog Box

This section describes the steps to customize ACTi Streaming Activator so that it may become customer's own interface.

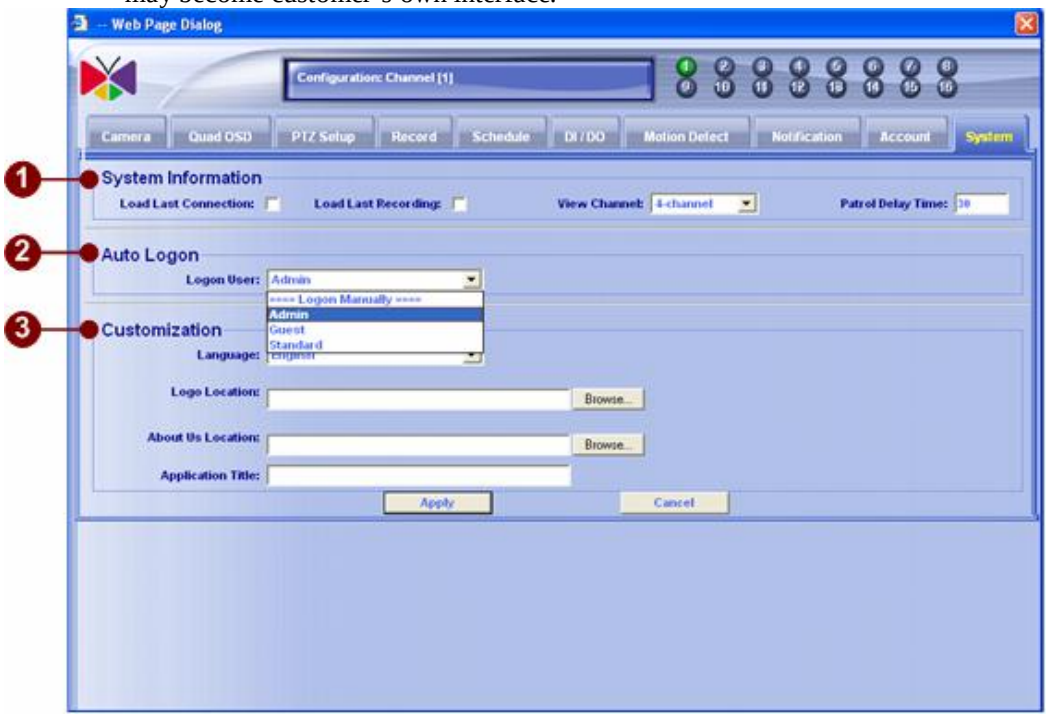


Figure 77. System Dialog Box

You may customize ACTi Streaming Activator in following ways:

1. **System Information:** Specifies the System information
   - `Load Last Connection`: Load the last status when start up. (not include recording status).
   - `Load Last Recording`: Load the last recording status when start up.
   - `View Channel`: Specifies the number of channels when start up.
   - `Patrol Delay Time`:

     For IP quad, this parameter affects the patrol delay time of each channel.

     For other products, this parameter affects the patrol delay time of this channel during patrol display function. (Ex: When you choose Patrol display on the Main window, the specific delay time of each channel).

2. **Auto Logon:** Specifies the Logon procedure. This setup will effect each time you login.
   - `Logon manually`: Each time you start Streaming Activator, you have to manually enter the User ID and Password before you can use it.
   - `Admin`: Each time you Streaming Activator, it will auto login as an administrator user. Refer to the table below for what administrator can do.
   - `Guest`: Each time you Streaming Activator, it will auto login as a guest user. Refer to the table below for what administrator can do. Specifies the number of channels when start up.
   - `Standard`: Each time you Streaming Activator, it will auto login as a standard user. Refer to the table below for what administrator can do.

Default Group	Default Permission
Administrator	Can Preview, PlayBack, Setup
Standard User	Preview and PlayBack, not Setup
Guest User	Only Preview

3. **Customization:** Specifies the Customization information
   - `Language`: Change the default language.
   - `Style`: Change the Application's UI.
   - `Logo Location`: Change the logo file. The logo file should be built with transparent gif.
   - `About Us Location`: Change the About Us file. This file `C:\AboutUs.htm` is compiled in HTML format.
   - `Application Title`: Change the content on the title bar. The specification of the title bar (text file) is located at: C:\Title.txt

10 Technical Support

If you have any problem on Activator Software, you can go to our technical support web:

http://www.acti.com/support/support_package.asp

Or mail to our customer service mail box:

Customer.service@acti.com

Appendix-A PTZ protocol

This sections tells you how to write a PTZ protocol. Please read the instruction below to procedure writing protocol using Pelco-P protocol sample.

Pelco P message structure

Byte	Value	Function
1	$A0	STX (start transmission)
2	$00 to $1F	Address
3	Data byte 1	(see below)
4	Data byte 2	(see below)
5	Data byte 3	(see below)
6	Data byte 4	(see below)
7	$AF	ETX (end transmission)
8	$00-$FF	Check Sum

Byte 1 is always $A0

Byte 2 is the receiver address, set by DIP switch in the receiver

Byte 3-6, see below

Byte 7 is always $AF

Byte 8 is an XOR sum of Bytes 1-7

The protocol is "zero indexed" so that the hexadecimal address sent in the protocol for the first receiver is $00 which corresponds to address 1.

For Pelco P protocol the extended command set will have bit 0 of data byte 2 set and will follow the format in the following table:

Command	Data byte 1	Data byte 2	Data byte 3	Data byte 4
Set Preset XX	00	03	00	01 to FF
Clear Preset XX	00	05	00	01 to FF
Go To Preset XX	00	07	00	01 to FF
Flip (rotate 180°)	00	07	00	21
Zero Pan Position	00	07	00	22
Auto scan	00	09	00	00
Stop auto scan	00	0B	00	00
Remote Reset	00	0F	00	00
Zone Start	00	11	00	01 to 08
Zone End	00	13	00	01 to 08
Write char to screen	00	15	0 to 28	0 to 7F
Clear Screen	00	17	00	00
Alarm Ack	00	19	00	01 to 08
Zone Scan On	00	1B	00	00
Zone Scan Off	00	1D	00	00
Pattern Start	00	1F	00	00
Pattern Stop	00	21	00	00
Run Pattern	00	23	00	00
Zoom Lens Speed	00	25	00	00 to 03
Focus Lens Speed	00	27	00	00 to 03

Our protocol.ptz format is:

(Function);X;Y;Byte1,Byte 2,Byte 3,Byte 4,Byte 5,Byte 6,Byte 7,Byte 8;;;

PANTILT; 0; 0; 0xA0, 0x00 , 0x00 , 0x00 , 0x3F , 0x3F , 0xAF ,0x0F;;;

Example:

Zoom IN:

```
ZOOM; 1; 0;0xA0,0x00,0x00,0x20,0x00,0x00,0xAF,0x2F;;;
```

Zoom Out:

```
ZOOM;-1; 0;0xA0,0x00,0x00,0x40,0x00,0x00,0xAF,0x4F;;;
```

Zoom Stop:

```
ZOOM; 0; 0;0xA0,0x00,0x00,0x00,0x00,0x00,0xAF,0x0F;;;
```

Pan and Titl Move left slowest Speed :

```
PANTILT;-1; 0;0xA0,0x00,0x00,0x04,0x0C,0x3F,0xAF,0x38;;;
```

Pan and Titl Move left fastest Speed :

```
PANTILT;-5; 0;0xA0,0x00,0x00,0x04,0x3F,0x3F,0xAF,0x0B;;;
```

Pan and Titl Move right slowest Speed :

```
PANTILT; 1; 0;0xA0,0x00,0x00,0x02,0x0C,0x3F,0xAF,0x3E;;;
```

Pan and Titl Move right fastest Speed :

```
PANTILT; 5; 0;0xA0,0x00,0x00,0x02,0x3F,0x3F,0xAF,0x0D;;;
```

Example: (pelco_p)

```
PANTILT; 0; 0;0xA0,0x00,0x00,0x00,0x3F,0x3F,0xAF,0x0F;;;
PANTILT;-5; 0;0xA0,0x00,0x00,0x04,0x3F,0x3F,0xAF,0x0B;;;
PANTILT;-4; 0;0xA0,0x00,0x00,0x04,0x30,0x3F,0xAF,0x04;;;
PANTILT;-3; 0;0xA0,0x00,0x00,0x04,0x24,0x3F,0xAF,0x10;;;
PANTILT;-2; 0;0xA0,0x00,0x00,0x04,0x18,0x3F,0xAF,0x2C;;;
PANTILT;-1; 0;0xA0,0x00,0x00,0x04,0x0C,0x3F,0xAF,0x38;;;
PANTILT; 1; 0;0xA0,0x00,0x00,0x02,0x0C,0x3F,0xAF,0x3E;;;
PANTILT; 2; 0;0xA0,0x00,0x00,0x02,0x18,0x3F,0xAF,0x2A;;;
PANTILT; 3; 0;0xA0,0x00,0x00,0x02,0x24,0x3F,0xAF,0x16;;;
PANTILT; 4; 0;0xA0,0x00,0x00,0x02,0x30,0x3F,0xAF,0x02;;;
PANTILT; 5; 0;0xA0,0x00,0x00,0x02,0x3F,0x3F,0xAF,0x0D;;;
PANTILT; 0; 5;0xA0,0x00,0x00,0x08,0x3F,0x3F,0xAF,0x07;;;
PANTILT; 0; 4;0xA0,0x00,0x00,0x08,0x3F,0x30,0xAF,0x08;;;
PANTILT; 0; 3;0xA0,0x00,0x00,0x08,0x3F,0x24,0xAF,0x1C;;;
PANTILT; 0; 2;0xA0,0x00,0x00,0x08,0x3F,0x18,0xAF,0x20;;;
PANTILT; 0; 1;0xA0,0x00,0x00,0x08,0x3F,0x0C,0xAF,0x34;;;
PANTILT; 0;-1;0xA0,0x00,0x00,0x10,0x3F,0x0C,0xAF,0x2C;;;
PANTILT; 0;-2;0xA0,0x00,0x00,0x10,0x3F,0x18,0xAF,0x38;;;
PANTILT; 0;-3;0xA0,0x00,0x00,0x10,0x3F,0x24,0xAF,0x04;;;
PANTILT; 0;-4;0xA0,0x00,0x00,0x10,0x3F,0x30,0xAF,0x10;;;
PANTILT; 0;-5;0xA0,0x00,0x00,0x10,0x3F,0x3F,0xAF,0x1F;;;
ZOOM; 1; 0;0xA0,0x00,0x00,0x20,0x00,0x00,0xAF,0x2F;;;
ZOOM; 0; 0;0xA0,0x00,0x00,0x00,0x00,0x00,0xAF,0x0F;;;
ZOOM;-1; 0;0xA0,0x00,0x00,0x40,0x00,0x00,0xAF,0x4F;;;
FOCUS; 1;0;0xA0,0x00,0x01,0x00,0x00,0x00,0xAF,0x0E;;;
FOCUS; 0;0;0xA0,0x00,0x00,0x00,0x00,0x00,0xAF,0x0F;;;
FOCUS;-1;0;0xA0,0x00,0x02,0x00,0x00,0x00,0xAF,0x0D;;;
GOTOPRESET;1;0;0xA0,0x00,0x00,0x07,0x00,0x01,0xAF,0x09;;;
GOTOPRESET;2;0;0xA0,0x00,0x00,0x07,0x00,0x02,0xAF,0x0A;;;
GOTOPRESET;3;0;0xA0,0x00,0x00,0x07,0x00,0x03,0xAF,0x0B;;;
GOTOPRESET;4;0;0xA0,0x00,0x00,0x07,0x00,0x04,0xAF,0x0C;;;
GOTOPRESET;5;0;0xA0,0x00,0x00,0x07,0x00,0x05,0xAF,0x0D;;;
GOTOPRESET;6;0;0xA0,0x00,0x00,0x07,0x00,0x06,0xAF,0x0E;;;
SETPRESET;1;0;0xA0,0x00,0x00,0x03,0x00,0x01,0xAF,0x0D;;;
SETPRESET;2;0;0xA0,0x00,0x00,0x03,0x00,0x02,0xAF,0x0E;;;
SETPRESET;3;0;0xA0,0x00,0x00,0x03,0x00,0x03,0xAF,0x0F;;;
SETPRESET;4;0;0xA0,0x00,0x00,0x03,0x00,0x04,0xAF,0x08;;;
SETPRESET;5;0;0xA0,0x00,0x00,0x03,0x00,0x05,0xAF,0x09;;;
SETPRESET;6;0;0xA0,0x00,0x00,0x03,0x00,0x06,0xAF,0x0A;;;
CLEANPRESET;1;0;0xA0,0x00,0x00,0x05,0x00,0x01,0xAF,0x0B;;;
CLEANPRESET;2;0;0xA0,0x00,0x00,0x05,0x00,0x02,0xAF,0x08;;;
```

```
            CLEANPRESET;3;0;0xA0,0x00,0x00,0x05,0x00,0x03,0xAF,0x09;;;
            CLEANPRESET;4;0;0xA0,0x00,0x00,0x05,0x00,0x04,0xAF,0x0E;;;
            CLEANPRESET;5;0;0xA0,0x00,0x00,0x05,0x00,0x05,0xAF,0x0F;;;

CLEANPRESET;6;0;0xA0,0x00,0x00,0x05,0x00,0x06,0xAF,0x00;;;
```